

**BARNES**

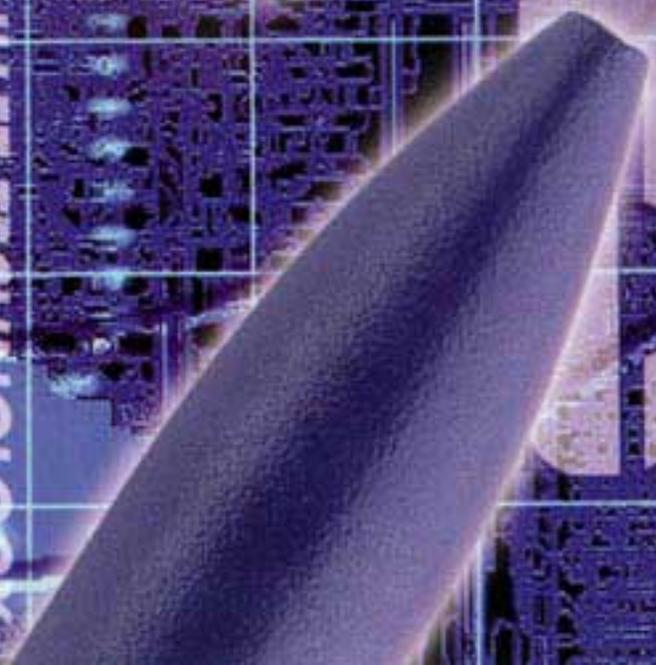
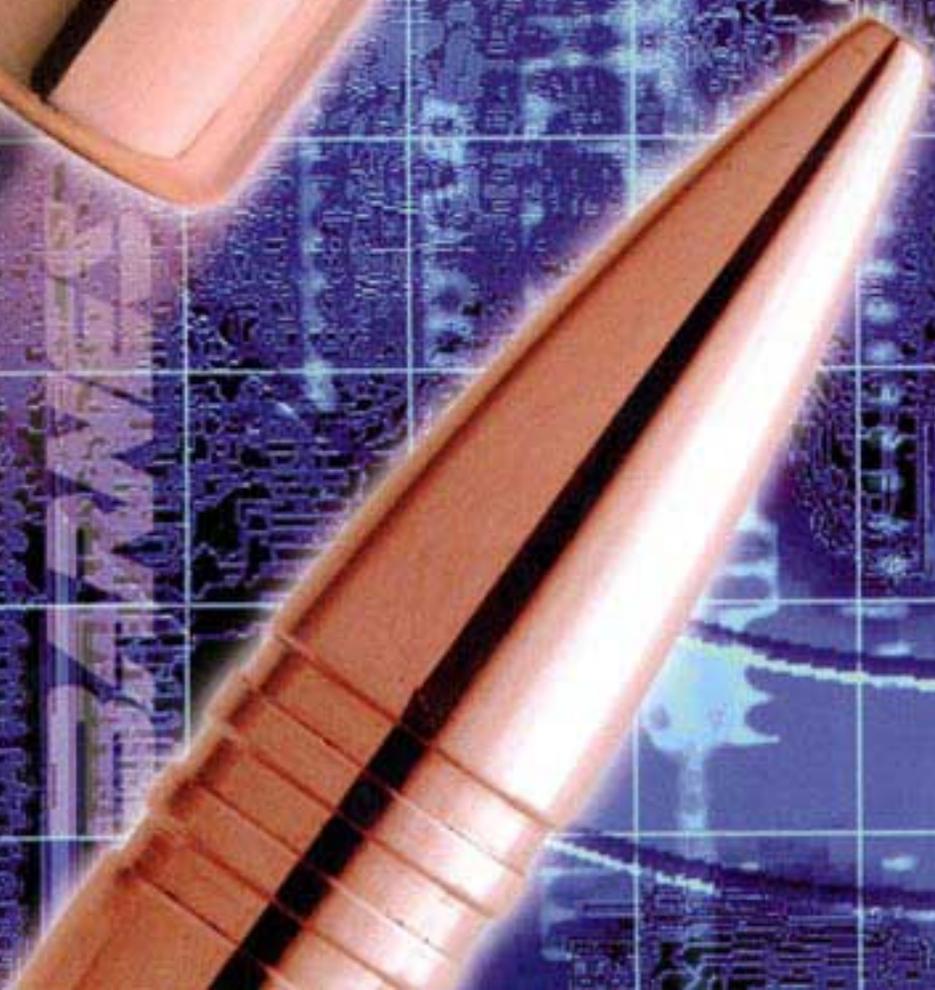
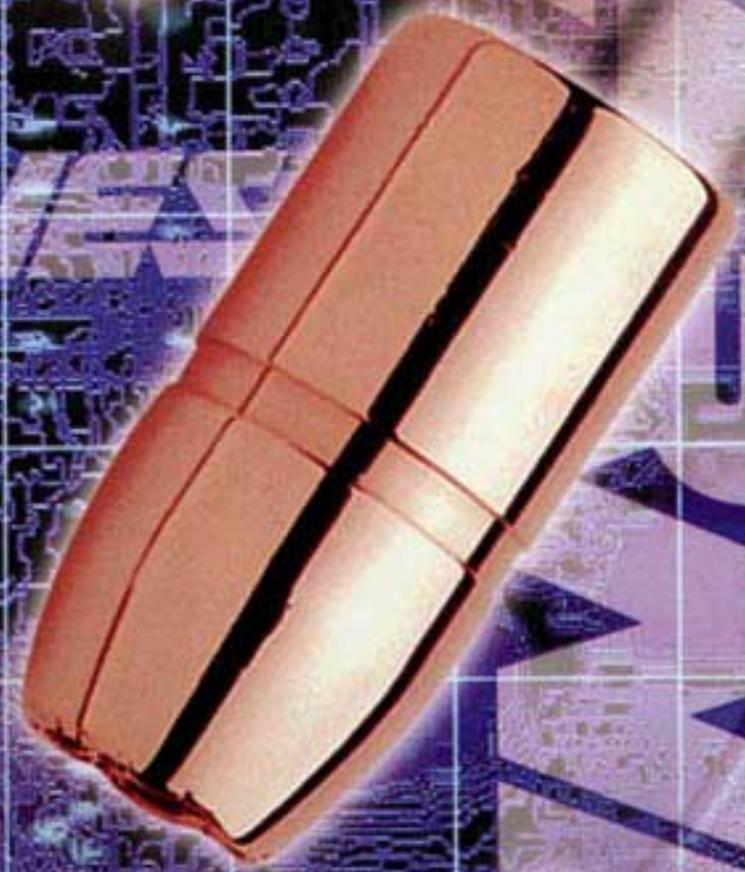


**THE FUTURE IN BULLET TECHNOLOGY**

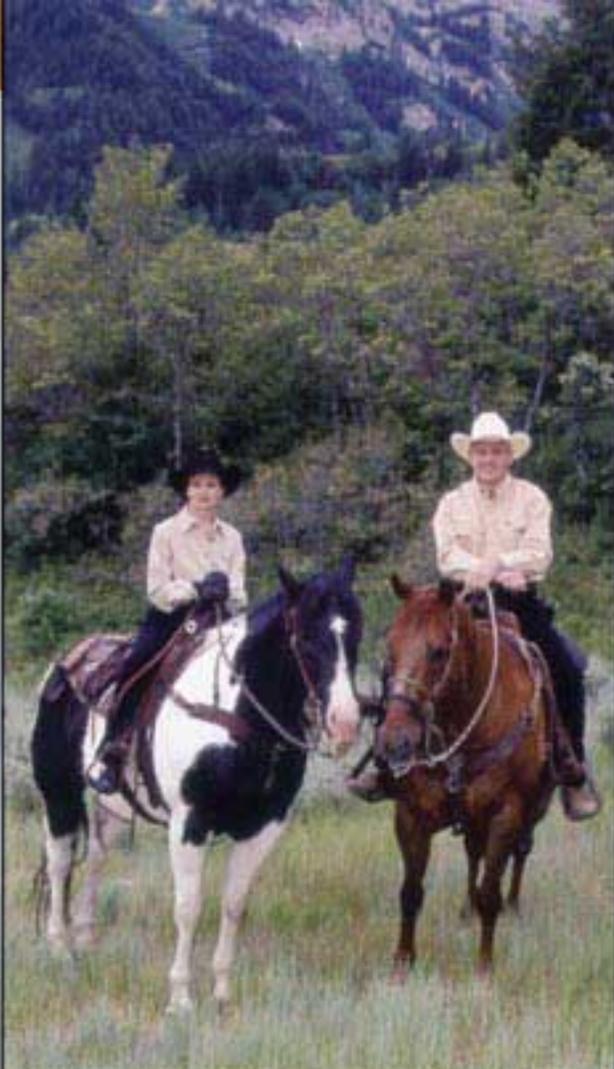


**BARNES**

**THE FUTURE IN BULLET TECHNOLOGY**



**BARNE**



# BARNES BULLETS

## THE FUTURE IN BULLET TECHNOLOGY

Enhancing the future of hunting  
for generations to come.

*Randy and Coni Brooks, owners of Barnes Bullets, have made a life-long commitment to focusing their time and efforts on the advancement and preservation of the shooting sports, as well as wildlife and habitat conservation.*

BARNES BULLETS

Commitment to the shooting industry has been paramount in the success of Barnes Bullets, ranging from financial support of industry organizations to product enhancements and new product introductions.

The finest technologies and facilities are incorporated into the production of Barnes products insuring quality, dependability and the finest performance for the user. Randy and Coni Brooks are in the field year-round performing research and development tests for possible improvements to insure the best overall performance.

The Brooks are advocates of safe, responsible shooting and hunting practices, and share these activities with their children and grandchildren alike, as well as their fellow hunters.

The Brooks' simple approach to building better products and taking pride in the products their company has to offer has put Barnes out in front and remains, the best choice for the discriminating hunter.



*Randy Brooks used a 300 WBY and the match-grade 168 gr. XLC to take this giant whitetail.*

*Hunting with Wilderness Outfitters in NW Wyoming, Coni took this terrific elk with one shot at 300 yards using her trusty ole 338 Winchester loaded with a 185 gr. XLC. "The 338 and the X-Bullet never let me down," says Coni.*



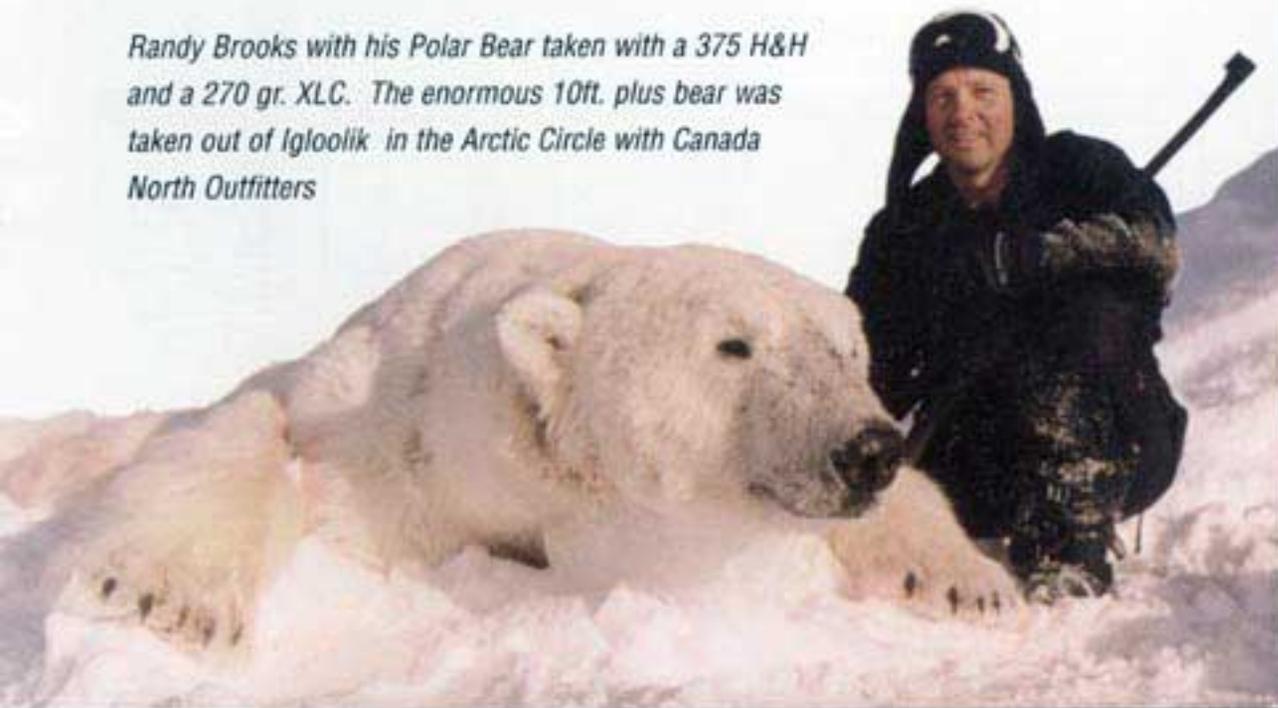


Randy Brooks and his Kansas white-tail pictured with George Taulman. This hunt can be seen on U.S. Outfitters television program "Real Hunting" airing on the Outdoor Channel.



Coni is pictured with the seven member Utah Wildlife Commission appointed by Governor Leavitt. The Commission is responsible for all decisions concerning wildlife and aquatics in the state of Utah.

Randy Brooks with his Polar Bear taken with a 375 H&H and a 270 gr. XLC. The enormous 10ft. plus bear was taken out of Igloodik in the Arctic Circle with Canada North Outfitters



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## HOW TO READ BULLET TABLES

|                       |                 |        |
|-----------------------|-----------------|--------|
| CALIBER               | <b>270 CAL.</b> |        |
| DIAMETER              | DIA.            | .277"  |
| BULLET WEIGHT         | WGT.            | 120 GR |
| BULLET TYPE           | TYPE            | "X" BT |
| SECTION DENSITY       | DENS.           | .223   |
| BALLISTIC COEFFICIENT | COEF.           | .423   |
| CATALOG NUMBER        | CAT. #          | 27713  |

|          |       |                           |
|----------|-------|---------------------------|
| FNSP     | ..... | Flat Nose Soft Point      |
| JEFF     | ..... | Jeffrey                   |
| LRS      | ..... | Long Range Solid          |
| MAG      | ..... | Magnum                    |
| MZ       | ..... | Muzzleloader Slug         |
| NIT      | ..... | Nitro                     |
| RNSP     | ..... | Round Nose Soft Point     |
| SSP      | ..... | Spitzer Soft Point        |
| VLC      | ..... | Varmint Lubricated Bullet |
| VMTR     | ..... | Varmen-A-Tor Bullet       |
| W.R.     | ..... | Westley Richards          |
| TSX      | ..... | Triple-Shock X-Bullet     |
| "X" BT   | ..... | X-Bullet Boat Tail        |
| "X" FN   | ..... | X-Bullet Flat Nose        |
| "X" PB   | ..... | X-Bullet Pistol Bullet    |
| "X" S    | ..... | X-Bullet Spitzer          |
| "XLC" BT | ..... | X-Lubricated Boat Tail    |
| "XLC" S  | ..... | X-Lubricated Spitzer      |



# THE ALL-COPPER BARNES X-BULLET™

Setting the industry standard for premium hunting bullets since 1989.



*The X-Bullet™ is praised by professional hunters and outdoor writers as the bullet that delivers "MORE ONE-SHOT KILLS" than any conventional lead-core bullet.*



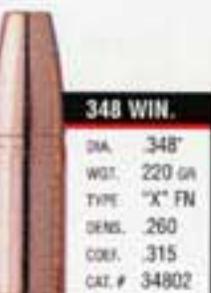
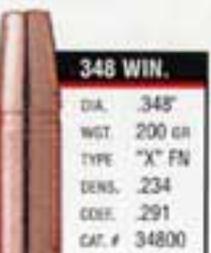
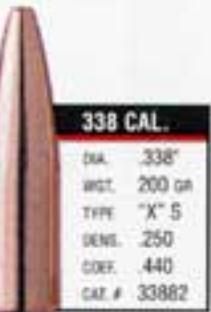
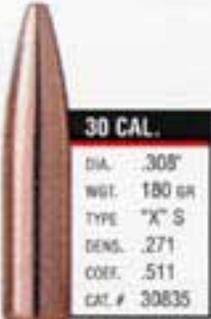
BARNES X-BULLET

- All Copper Construction
- No fragmentation
- Penetrates 28% deeper than lead core bullets
- Accurate
- High weight retention
- Four razor sharp cutting edges for deeper penetration
- More One-Shot Kills

|  <table border="1"> <thead> <tr><th>22 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .224"</td></tr> <tr><td>WGT. 50 GR</td></tr> <tr><td>TYPE "X" S</td></tr> <tr><td>DENS. .142</td></tr> <tr><td>COEF. .220</td></tr> <tr><td>CAT. # 22450</td></tr> </tbody> </table>    | 22 CAL.  | DIA. .224" | WGT. 50 GR  | TYPE "X" S  | DENS. .142 | COEF. .220 | CAT. # 22450 |  <table border="1"> <thead> <tr><th>22 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .224"</td></tr> <tr><td>WGT. 53 GR</td></tr> <tr><td>TYPE "X" S</td></tr> <tr><td>DENS. .151</td></tr> <tr><td>COEF. .231</td></tr> <tr><td>CAT. # 22453</td></tr> </tbody> </table>   | 22 CAL.  | DIA. .224" | WGT. 53 GR  | TYPE "X" S  | DENS. .151 | COEF. .231 | CAT. # 22453 |  <table border="1"> <thead> <tr><th>6MM</th></tr> </thead> <tbody> <tr><td>DIA. .243"</td></tr> <tr><td>WGT. 85 GR</td></tr> <tr><td>TYPE "X" BT</td></tr> <tr><td>DENS. .206</td></tr> <tr><td>COEF. .401</td></tr> <tr><td>CAT. # 24310</td></tr> </tbody> </table>       | 6MM      | DIA. .243" | WGT. 85 GR  | TYPE "X" BT | DENS. .206 | COEF. .401 | CAT. # 24310 |  <table border="1"> <thead> <tr><th>6MM</th></tr> </thead> <tbody> <tr><td>DIA. .243"</td></tr> <tr><td>WGT. 90 GR</td></tr> <tr><td>TYPE "X" S</td></tr> <tr><td>DENS. .218</td></tr> <tr><td>COEF. .382</td></tr> <tr><td>CAT. # 24315</td></tr> </tbody> </table>        | 6MM      | DIA. .243" | WGT. 90 GR  | TYPE "X" S  | DENS. .218 | COEF. .382 | CAT. # 24315 |  <table border="1"> <thead> <tr><th>25 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .257"</td></tr> <tr><td>WGT. 90 GR</td></tr> <tr><td>TYPE "X" BT</td></tr> <tr><td>DENS. .195</td></tr> <tr><td>COEF. .343</td></tr> <tr><td>CAT. # 25710</td></tr> </tbody> </table>  | 25 CAL.  | DIA. .257" | WGT. 90 GR  | TYPE "X" BT | DENS. .195 | COEF. .343 | CAT. # 25710 |
|--|----------|------------|-------------|-------------|------------|------------|--------------|---|----------|------------|-------------|-------------|------------|------------|--------------|--|----------|------------|-------------|-------------|------------|------------|--------------|--|----------|------------|-------------|-------------|------------|------------|--------------|---|----------|------------|-------------|-------------|------------|------------|--------------|
| 22 CAL.  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .224"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 50 GR   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" S   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .142   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .220   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 22450   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 22 CAL.  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .224"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 53 GR   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" S   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .151   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .231   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 22453   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 6MM  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .243"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 85 GR   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" BT  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .206   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .401   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 24310   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 6MM  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .243"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 90 GR   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" S   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .218   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .382   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 24315   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 25 CAL.  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .257"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 90 GR   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" BT  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .195   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .343   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 25710   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
|  <table border="1"> <thead> <tr><th>25 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .257"</td></tr> <tr><td>WGT. 100 GR</td></tr> <tr><td>TYPE "X" S</td></tr> <tr><td>DENS. .216</td></tr> <tr><td>COEF. .401</td></tr> <tr><td>CAT. # 25715</td></tr> </tbody> </table>   | 25 CAL.  | DIA. .257" | WGT. 100 GR | TYPE "X" S  | DENS. .216 | COEF. .401 | CAT. # 25715 |  <table border="1"> <thead> <tr><th>25 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .257"</td></tr> <tr><td>WGT. 100 GR</td></tr> <tr><td>TYPE "X" BT</td></tr> <tr><td>DENS. .216</td></tr> <tr><td>COEF. .420</td></tr> <tr><td>CAT. # 25717</td></tr> </tbody> </table> | 25 CAL.  | DIA. .257" | WGT. 100 GR | TYPE "X" BT | DENS. .216 | COEF. .420 | CAT. # 25717 |  <table border="1"> <thead> <tr><th>6.5 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .264"</td></tr> <tr><td>WGT. 120 GR</td></tr> <tr><td>TYPE "X" S</td></tr> <tr><td>DENS. .246</td></tr> <tr><td>COEF. .441</td></tr> <tr><td>CAT. # 26402</td></tr> </tbody> </table>  | 6.5 CAL. | DIA. .264" | WGT. 120 GR | TYPE "X" S  | DENS. .246 | COEF. .441 | CAT. # 26402 |  <table border="1"> <thead> <tr><th>6.5 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .264"</td></tr> <tr><td>WGT. 130 GR</td></tr> <tr><td>TYPE "X" S</td></tr> <tr><td>DENS. .266</td></tr> <tr><td>COEF. .479</td></tr> <tr><td>CAT. # 26403</td></tr> </tbody> </table>  | 6.5 CAL. | DIA. .264" | WGT. 130 GR | TYPE "X" S  | DENS. .266 | COEF. .479 | CAT. # 26403 |  <table border="1"> <thead> <tr><th>6.5 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .264"</td></tr> <tr><td>WGT. 140 GR</td></tr> <tr><td>TYPE "X" S</td></tr> <tr><td>DENS. .287</td></tr> <tr><td>COEF. .522</td></tr> <tr><td>CAT. # 26405</td></tr> </tbody> </table> | 6.5 CAL. | DIA. .264" | WGT. 140 GR | TYPE "X" S  | DENS. .287 | COEF. .522 | CAT. # 26405 |
| 25 CAL.  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .257"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 100 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" S   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .216   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .401   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 25715   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 25 CAL.  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .257"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 100 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" BT  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .216   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .420   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 25717   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 6.5 CAL.   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .264"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 120 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" S   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .246   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .441   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 26402   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 6.5 CAL.   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .264"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 130 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" S   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .266   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .479   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 26403   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 6.5 CAL.   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .264"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 140 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" S   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .287   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .522   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 26405   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
|  <table border="1"> <thead> <tr><th>270 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .277"</td></tr> <tr><td>WGT. 120 GR</td></tr> <tr><td>TYPE "X" BT</td></tr> <tr><td>DENS. .223</td></tr> <tr><td>COEF. .423</td></tr> <tr><td>CAT. # 27713</td></tr> </tbody> </table> | 270 CAL. | DIA. .277" | WGT. 120 GR | TYPE "X" BT | DENS. .223 | COEF. .423 | CAT. # 27713 |  <table border="1"> <thead> <tr><th>270 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .277"</td></tr> <tr><td>WGT. 130 GR</td></tr> <tr><td>TYPE "X" S</td></tr> <tr><td>DENS. .242</td></tr> <tr><td>COEF. .428</td></tr> <tr><td>CAT. # 27715</td></tr> </tbody> </table> | 270 CAL. | DIA. .277" | WGT. 130 GR | TYPE "X" S  | DENS. .242 | COEF. .428 | CAT. # 27715 |  <table border="1"> <thead> <tr><th>270 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .277"</td></tr> <tr><td>WGT. 130 GR</td></tr> <tr><td>TYPE "X" BT</td></tr> <tr><td>DENS. .242</td></tr> <tr><td>COEF. .466</td></tr> <tr><td>CAT. # 27717</td></tr> </tbody> </table> | 270 CAL. | DIA. .277" | WGT. 130 GR | TYPE "X" BT | DENS. .242 | COEF. .466 | CAT. # 27717 |  <table border="1"> <thead> <tr><th>270 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .277"</td></tr> <tr><td>WGT. 140 GR</td></tr> <tr><td>TYPE "X" BT</td></tr> <tr><td>DENS. .261</td></tr> <tr><td>COEF. .497</td></tr> <tr><td>CAT. # 27727</td></tr> </tbody> </table> | 270 CAL. | DIA. .277" | WGT. 140 GR | TYPE "X" BT | DENS. .261 | COEF. .497 | CAT. # 27727 |  <table border="1"> <thead> <tr><th>270 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .277"</td></tr> <tr><td>WGT. 150 GR</td></tr> <tr><td>TYPE "X" S</td></tr> <tr><td>DENS. .279</td></tr> <tr><td>COEF. .491</td></tr> <tr><td>CAT. # 27735</td></tr> </tbody> </table> | 270 CAL. | DIA. .277" | WGT. 150 GR | TYPE "X" S  | DENS. .279 | COEF. .491 | CAT. # 27735 |
| 270 CAL.   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .277"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 120 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" BT  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .223   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .423   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 27713   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 270 CAL.   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .277"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 130 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" S   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .242   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .428   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 27715   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 270 CAL.   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .277"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 130 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" BT  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .242   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .466   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 27717   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 270 CAL.   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .277"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 140 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" BT  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .261   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .497   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 27727   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 270 CAL.   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .277"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 150 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" S   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .279   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .491   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 27735   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
|  <table border="1"> <thead> <tr><th>7MM</th></tr> </thead> <tbody> <tr><td>DIA. .284"</td></tr> <tr><td>WGT. 120 GR</td></tr> <tr><td>TYPE "X" BT</td></tr> <tr><td>DENS. .213</td></tr> <tr><td>COEF. .411</td></tr> <tr><td>CAT. # 28417</td></tr> </tbody> </table>      | 7MM      | DIA. .284" | WGT. 120 GR | TYPE "X" BT | DENS. .213 | COEF. .411 | CAT. # 28417 |  <table border="1"> <thead> <tr><th>7MM</th></tr> </thead> <tbody> <tr><td>DIA. .284"</td></tr> <tr><td>WGT. 130 GR</td></tr> <tr><td>TYPE "X" BT</td></tr> <tr><td>DENS. .230</td></tr> <tr><td>COEF. .444</td></tr> <tr><td>CAT. # 28420</td></tr> </tbody> </table>     | 7MM      | DIA. .284" | WGT. 130 GR | TYPE "X" BT | DENS. .230 | COEF. .444 | CAT. # 28420 |  <table border="1"> <thead> <tr><th>7MM</th></tr> </thead> <tbody> <tr><td>DIA. .284"</td></tr> <tr><td>WGT. 140 GR</td></tr> <tr><td>TYPE "X" S</td></tr> <tr><td>DENS. .248</td></tr> <tr><td>COEF. .436</td></tr> <tr><td>CAT. # 28425</td></tr> </tbody> </table>       | 7MM      | DIA. .284" | WGT. 140 GR | TYPE "X" S  | DENS. .248 | COEF. .436 | CAT. # 28425 |  <table border="1"> <thead> <tr><th>7MM</th></tr> </thead> <tbody> <tr><td>DIA. .284"</td></tr> <tr><td>WGT. 140 GR</td></tr> <tr><td>TYPE "X" BT</td></tr> <tr><td>DENS. .248</td></tr> <tr><td>COEF. .477</td></tr> <tr><td>CAT. # 28426</td></tr> </tbody> </table>      | 7MM      | DIA. .284" | WGT. 140 GR | TYPE "X" BT | DENS. .248 | COEF. .477 | CAT. # 28426 |  <table border="1"> <thead> <tr><th>7MM</th></tr> </thead> <tbody> <tr><td>DIA. .284"</td></tr> <tr><td>WGT. 150 GR</td></tr> <tr><td>TYPE "X" S</td></tr> <tr><td>DENS. .266</td></tr> <tr><td>COEF. .488</td></tr> <tr><td>CAT. # 28427</td></tr> </tbody> </table>      | 7MM      | DIA. .284" | WGT. 150 GR | TYPE "X" S  | DENS. .266 | COEF. .488 | CAT. # 28427 |
| 7MM  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .284"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 120 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" BT  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .213   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .411   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 28417   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 7MM  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .284"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 130 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" BT  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .230   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .444   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 28420   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 7MM  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .284"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 140 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" S   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .248   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .436   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 28425   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 7MM  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .284"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 140 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" BT  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .248   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .477   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 28426   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| 7MM  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DIA. .284"   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| WGT. 150 GR  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| TYPE "X" S   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| DENS. .266   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| COEF. .488   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |
| CAT. # 28427   |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |  |          |            |             |             |            |            |              |   |          |            |             |             |            |            |              |



*Skip Jeanneret, Barnes factory rep, took a 350 yard shot in Douglas, Wyoming with a 300 Winchester and a 180 gr. X-Bullet to take this super mule deer.*



*338 225 gr. X  
Recovered from a brown bear  
97% wgt. retention.*



*308 180 gr. XBT  
Recovered from a moose  
98% wgt. retention.*



*6mm 85 gr. XBT  
Recovered from a whitetail  
98% wgt. retention.*



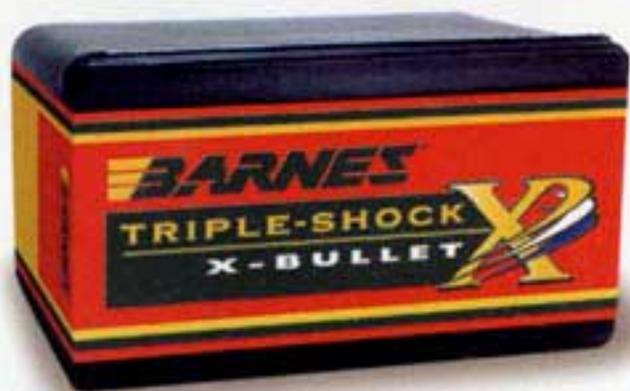
Jason Waters used a 300 WBY Mag and a 180 gr. Barnes X-Bullet to harvest this 66" bull moose in Yukon Northwest Territories. The enormous moose scored 219-2/8 not far from the record.



Larry Irvin, of Cola Blanco Outfitters, used the 7mm Ultra magnum and a 160 gr. Barnes XLC to harvest this 56" kudu in Africa.



**NEW**



# TRIPLE-SHOCK™ BARNES X-BULLET™

Greater velocity, lower pressure, and less fouling.

*The bullet that delivers a TRIPLE IMPACT – One when it first strikes game, another as the bullet begins opening, and a third devastating impact when the specially engineered cavity fully expands to deliver extra shock with maximum transferred energy.*



TRIPLE-SHOCK X-BULLET

## TRIPLE-SHOCK X-BULLET

**6MM** **NEW**

|        |       |
|--------|-------|
| DIA.   | .243" |
| WGT.   | 95 GR |
| TYPE   | TSX   |
| DENS.  | .230  |
| COEF.  | .398  |
| CAT. # | 24345 |

**25 CAL.** **NEW**

|        |        |
|--------|--------|
| DIA.   | .257"  |
| WGT.   | 100 GR |
| TYPE   | TSX BT |
| DENS.  | .216   |
| COEF.  | .420   |
| CAT. # | 25742  |

**25 CAL.** **NEW**

|        |        |
|--------|--------|
| DIA.   | .257"  |
| WGT.   | 115 GR |
| TYPE   | TSX    |
| DENS.  | .249   |
| COEF.  | .429   |
| CAT. # | 25743  |

**270 CAL.** **NEW**

|        |        |
|--------|--------|
| DIA.   | .277"  |
| WGT.   | 130 GR |
| TYPE   | TSX BT |
| DENS.  | .242   |
| COEF.  | .466   |
| CAT. # | 27742  |

**270 CAL.** **NEW**

|        |        |
|--------|--------|
| DIA.   | .277"  |
| WGT.   | 140 GR |
| TYPE   | TSX BT |
| DENS.  | .261   |
| COEF.  | .497   |
| CAT. # | 27744  |

**7MM** **NEW**

|        |        |
|--------|--------|
| DIA.   | .284"  |
| WGT.   | 140 GR |
| TYPE   | TSX BT |
| DENS.  | .248   |
| COEF.  | .477   |
| CAT. # | 28444  |

**7MM** **NEW**

|        |        |
|--------|--------|
| DIA.   | .284"  |
| WGT.   | 160 GR |
| TYPE   | TSX    |
| DENS.  | .283   |
| COEF.  | .508   |
| CAT. # | 28446  |

**30 CAL.** **NEW**

|        |        |
|--------|--------|
| DIA.   | .308"  |
| WGT.   | 150 GR |
| TYPE   | TSX BT |
| DENS.  | .226   |
| COEF.  | .428   |
| CAT. # | 30841  |

**30 CAL.** **NEW**

|        |        |
|--------|--------|
| DIA.   | .308"  |
| WGT.   | 168 GR |
| TYPE   | TSX BT |
| DENS.  | .253   |
| COEF.  | .476   |
| CAT. # | 30844  |

**30 CAL.** **NEW**

|        |        |
|--------|--------|
| DIA.   | .308"  |
| WGT.   | 180 GR |
| TYPE   | TSX BT |
| DENS.  | .271   |
| COEF.  | .552   |
| CAT. # | 30846  |

- GREATER VELOCITY
- LOWER PRESSURE
- LESS FOULING
- BETTER ACCURACY
- All Copper Construction
- No fragmentation
- Penetrates 28% deeper than lead core bullets
- More one-shot kills
- High weight retention
- Four razor sharp cutting edges for deeper penetration

1-800-574-9200



# XLC™ COATED X-BULLETS™

The coated bullet for shooters looking for another edge in the field.



*The one bullet that delivers better shooting accuracy and cooler barrels.*



X L C C O A T E D X - B U L L E T

Mark Allmange took this non-typical mule deer with one shot at 200 yards using a 7mm STW and the 140 gr. XLC. The deer scores 210 B&C. Beautiful deer Mark.



John Waugh, factory rep for Barnes Bullets, took this terrific elk in Canada using a 300 WSM and a 180 gr. XLC bullet. The big bull scored B&C 378.

| 22 HORNET |          |
|-----------|----------|
| DIA.      | .224"    |
| WGT.      | 45 GR    |
| TYPE      | "XLC" BT |
| DENS.     | .128     |
| COEF.     | .203     |
| CAT. #    | 22452    |

| 22 CAL. |         |
|---------|---------|
| DIA.    | .224"   |
| WGT.    | 50 GR   |
| TYPE    | "XLC" S |
| DENS.   | .142    |
| COEF.   | .220    |
| CAT. #  | 22454   |

| 22 CAL. |         |
|---------|---------|
| DIA.    | .224"   |
| WGT.    | 53 GR   |
| TYPE    | "XLC" S |
| DENS.   | .151    |
| COEF.   | .231    |
| CAT. #  | 22455   |

| 6MM    |          |
|--------|----------|
| DIA.   | .243"    |
| WGT.   | 85 GR    |
| TYPE   | "XLC" BT |
| DENS.  | .206     |
| COEF.  | .401     |
| CAT. # | 24352    |

| 6MM    |         |
|--------|---------|
| DIA.   | .243"   |
| WGT.   | 95 GR   |
| TYPE   | "XLC" S |
| DENS.  | .230    |
| COEF.  | .398    |
| CAT. # | 24355   |

| 25 CAL. |          |
|---------|----------|
| DIA.    | .257"    |
| WGT.    | 100 GR   |
| TYPE    | "XLC" BT |
| DENS.   | .216     |
| COEF.   | .420     |
| CAT. #  | 25754    |

| 25 CAL. |         |
|---------|---------|
| DIA.    | .257"   |
| WGT.    | 115 GR  |
| TYPE    | "XLC" S |
| DENS.   | .249    |
| COEF.   | .429    |
| CAT. #  | 25756   |

| 6.5 CAL. |         |
|----------|---------|
| DIA.     | .264"   |
| WGT.     | 120 GR  |
| TYPE     | "XLC" S |
| DENS.    | .246    |
| COEF.    | .441    |
| CAT. #   | 26451   |

### The XLC™ Bullet Features:

- X-Bullet Technology
- All Copper Construction
- No fragmentation
- Four razor sharp cutting edges for deeper penetration
- More One Shot Kills
- Coating reduces pressure & fouling
- Coating is permanent (not moly)
- Coating keeps barrels cooler
- Coating enhances accuracy
- Coating does not coat the bore
- Coating increases velocity
- Offered in factory ammunition

# TECHNICAL HIGHLIGHTS

**6.5 CAL.**

|        |         |
|--------|---------|
| DIA.   | .264"   |
| WGT.   | 140 GR  |
| TYPE   | "XLC" S |
| DENS.  | .287    |
| COEF.  | .522    |
| CAT. # | 26453   |

**270 CAL.**

|        |          |
|--------|----------|
| DIA.   | .277"    |
| WGT.   | 130 GR   |
| TYPE   | "XLC" BT |
| DENS.  | .242     |
| COEF.  | .466     |
| CAT. # | 27754    |

**7MM**

|        |          |
|--------|----------|
| DIA.   | .284"    |
| WGT.   | 140 GR   |
| TYPE   | "XLC" BT |
| DENS.  | .248     |
| COEF.  | .477     |
| CAT. # | 28455    |

**7MM**

|        |         |
|--------|---------|
| DIA.   | .284"   |
| WGT.   | 160 GR  |
| TYPE   | "XLC" S |
| DENS.  | .283    |
| COEF.  | .508    |
| CAT. # | 28456   |

**30 CAL.**

|        |          |
|--------|----------|
| DIA.   | .308"    |
| WGT.   | 130 GR   |
| TYPE   | "XLC" BT |
| DENS.  | .196     |
| COEF.  | .374     |
| CAT. # | 30851    |

**30 CAL.**

|        |          |
|--------|----------|
| DIA.   | .308"    |
| WGT.   | 150 GR   |
| TYPE   | "XLC" BT |
| DENS.  | .226     |
| COEF.  | .428     |
| CAT. # | 30854    |

**30 CAL.**

|        |          |
|--------|----------|
| DIA.   | .308"    |
| WGT.   | 165 GR   |
| TYPE   | "XLC" BT |
| DENS.  | .247     |
| COEF.  | .505     |
| CAT. # | 30857    |

**30 CAL.**

|        |          |
|--------|----------|
| DIA.   | .308"    |
| WGT.   | 168 GR   |
| TYPE   | "XLC" BT |
| DENS.  | .253     |
| COEF.  | .476     |
| CAT. # | 30856    |

**30 CAL.**

|        |         |
|--------|---------|
| DIA.   | .308"   |
| WGT.   | 180 GR  |
| TYPE   | "XLC" S |
| DENS.  | .271    |
| COEF.  | .511    |
| CAT. # | 30858   |

**30 CAL.**

|        |          |
|--------|----------|
| DIA.   | .308"    |
| WGT.   | 180 GR   |
| TYPE   | "XLC" BT |
| DENS.  | .271     |
| COEF.  | .552     |
| CAT. # | 30859    |

**8MM**

|        |         |
|--------|---------|
| DIA.   | .323"   |
| WGT.   | 200 GR  |
| TYPE   | "XLC" S |
| DENS.  | .274    |
| COEF.  | .429    |
| CAT. # | 32312   |

**338 CAL.**

|        |          |
|--------|----------|
| DIA.   | .338"    |
| WGT.   | 185 GR   |
| TYPE   | "XLC" BT |
| DENS.  | .231     |
| COEF.  | .437     |
| CAT. # | 33854    |

**338 CAL.**

|        |          |
|--------|----------|
| DIA.   | .338"    |
| WGT.   | 210 GR   |
| TYPE   | "XLC" BT |
| DENS.  | .263     |
| COEF.  | .471     |
| CAT. # | 33856    |

**338 CAL.**

|        |         |
|--------|---------|
| DIA.   | .338"   |
| WGT.   | 225 GR  |
| TYPE   | "XLC" S |
| DENS.  | .281    |
| COEF.  | .482    |
| CAT. # | 33855   |

**35 CAL.**

|        |         |
|--------|---------|
| DIA.   | .358"   |
| WGT.   | 225 GR  |
| TYPE   | "XLC" S |
| DENS.  | .250    |
| COEF.  | .405    |
| CAT. # | 35826   |

**375 CAL.**

|        |         |
|--------|---------|
| DIA.   | .375"   |
| WGT.   | 235 GR  |
| TYPE   | "XLC" S |
| DENS.  | .239    |
| COEF.  | .400    |
| CAT. # | 37553   |

**375 CAL.**

|        |         |
|--------|---------|
| DIA.   | .375"   |
| WGT.   | 270 GR  |
| TYPE   | "XLC" S |
| DENS.  | .275    |
| COEF.  | .503    |
| CAT. # | 37557   |

**416 CAL.**

|        |         |
|--------|---------|
| DIA.   | .416"   |
| WGT.   | 400 GR  |
| TYPE   | "XLC" S |
| DENS.  | .330    |
| COEF.  | .546    |
| CAT. # | 41658   |

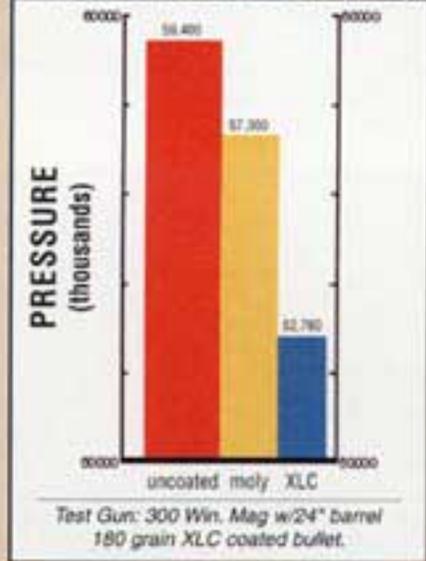
**470 NITRO**

|        |         |
|--------|---------|
| DIA.   | .474"   |
| WGT.   | 500 GR  |
| TYPE   | "XLC" S |
| DENS.  | .326    |
| COEF.  | .318    |
| CAT. # | 47550   |

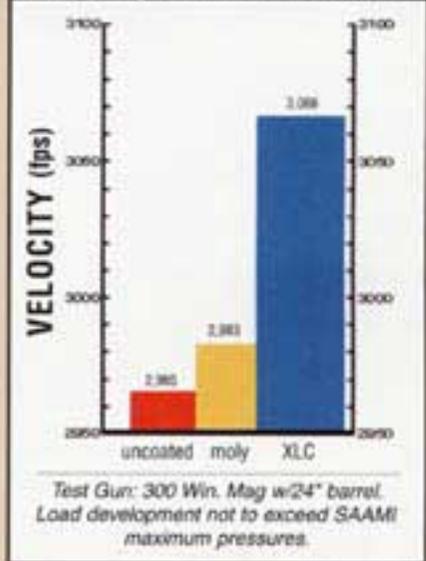
**50 CAL.**

|        |         |
|--------|---------|
| DIA.   | .509"   |
| WGT.   | 570 GR  |
| TYPE   | "XLC" S |
| DENS.  | .335    |
| COEF.  | .316    |
| CAT. # | 50957   |

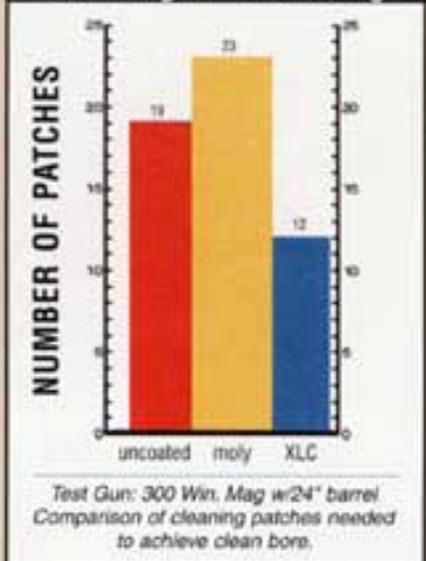
## Pressure Reduction (PSI)



## Velocity at Max Pressure



## Fouling & Cleaning



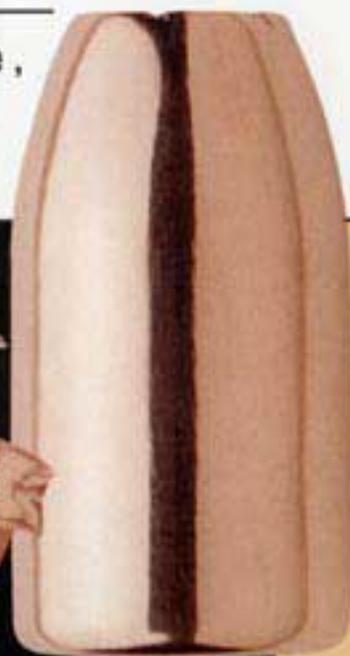


# EXPANDER MZ™ MUZZLELOADER BULLETS

With only one shot available,  
it better be with the best.



*The Barnes Expander MZ™  
Muzzleloader Bullet –  
Recommended and used  
by most in-line muzzle-  
loader manufacturers.*



BARNES EXPANDER MZ

*Charlie Semler used a TC Encore  
with a 300 grain Expander MZ  
and took this 8ft grizzly. The bullet  
went in behind the left front leg  
and broke the right shoulder on its  
way out. The bear expired within  
45 seconds and never left the spot.*

## Q. What is the MZ Alignment Tool and how does it work?

A. The alignment tool is made to screw on the end of your ramrod. It has the exact ogive shape of the Barnes Expander MZ™ Bullet, therefore ensuring perfect alignment of the bullet in the sabot, as well as enhancing overall shooting accuracy.



**45 CAL.**  
DIA. .400"  
WGT. 195 GR  
TYPE MZ  
DENS. .174  
COEF. .240  
CAT. # 40019



**50 CAL.**  
DIA. .451"  
WGT. 250 GR  
TYPE MZ  
DENS. .176  
COEF. .189  
CAT. # 45125



**50 CAL.**  
DIA. .451"  
WGT. 300 GR  
TYPE MZ  
DENS. .211  
COEF. .207  
CAT. # 45130



**54 CAL.**  
DIA. .500"  
WGT. 275 GR  
TYPE MZ  
DENS. .157  
COEF. .184  
CAT. # 50027



**54 CAL.**  
DIA. .500"  
WGT. 325 GR  
TYPE MZ  
DENS. .186  
COEF. .204  
CAT. # 50032



**45 CAL. ALIGNER**  
CAT. # 04500



**50 CAL. ALIGNER**  
CAT. # 05000



**54 CAL. ALIGNER**  
CAT. # 05400

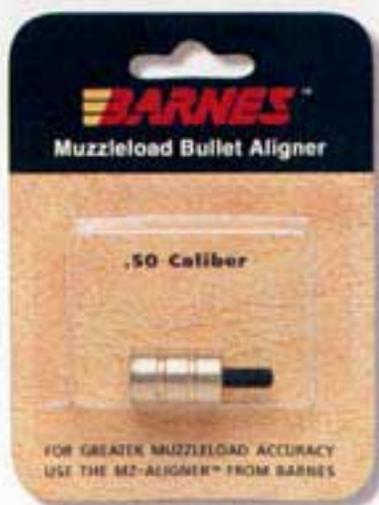
## The Expander MZ™ Bullet Features:

- 100% weight retention
- All Copper
- Highly accurate
- Six razor sharp cutting edges for deeper penetration and quick knock-down power
- Recommended for most in-line rifles
- Works at high and low velocities
- Rapid expansion
- No fragmentation



The Expander MZ™ Bullet is available in 45, 50 and 54 caliber. Offered in 10 and 25 packs.

The Alignment Tool will enhance the accuracy of the Barnes Expander MZ™ Bullet. The MZ™ Aligner Tool is available in 45, 50 and 54 caliber.



David Banfield of the Barnes Advisory Staff hunted with Arctic Red River Outfitters to take this beautiful mountain caribou. David used a 50 caliber muzzleloader and a 250 gr. Barnes Expander MZ. Banfield said the animal went down with one shot from 150 yards.



Brett Bateman used a 50 caliber Knight muzzleloader and a 250 gr. Barnes Expander MZ to take this Utah elk that scored 342. The bull traveled less than 20 yards and expired. The bullet was recovered in perfect condition lodged next to the skin on the opposite side of the entrance wound.

**Q. At what velocity can I expect the Expander MZ™ Muzzleloader Bullet to open?**

**A. Our muzzleloader bullet is function tested to start expansion at 1000 F.P.S.**



# BARNES BURNER™ VLC™ VARMINT BULLET

Solid dry film for  
ultra-high velocity firing.

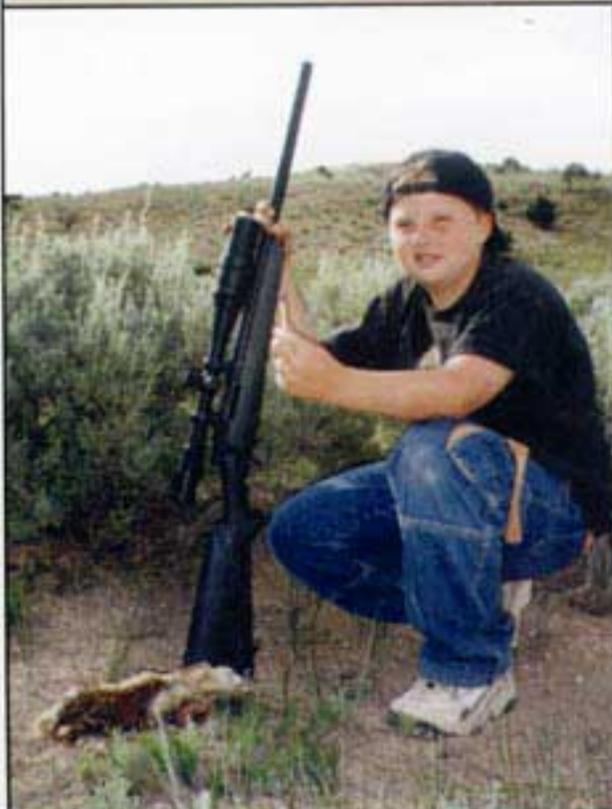


## BLUE = RED



BARNES BURNER VLC

*Randy and Coni Brooks' 10-year old grandson, Taylor Harrison, enjoys shooting prairie dogs. He was using the 22 caliber 50 gr. VLC Barnes Burner Varmint Bullet on a hunt in Utah this past year.*



| 22 CAL. |         |
|---------|---------|
| DIA.    | .224"   |
| WGT.    | 40 GR   |
| TYPE    | "VLC" S |
| DENS.   | .114    |
| COEF.   | .175    |
| CAL. #  | 22449   |

| 22 CAL. |         |
|---------|---------|
| DIA.    | .224"   |
| WGT.    | 50 GR   |
| TYPE    | "VLC" S |
| DENS.   | .142    |
| COEF.   | .217    |
| CAL. #  | 22459   |

| 6MM    |         |
|--------|---------|
| DIA.   | .243"   |
| WGT.   | 58 GR   |
| TYPE   | "VLC" S |
| DENS.  | .139    |
| COEF.  | .191    |
| CAL. # | 24349   |

| 6MM    |         |
|--------|---------|
| DIA.   | .243"   |
| WGT.   | 72 GR   |
| TYPE   | "VLC" S |
| DENS.  | .174    |
| COEF.  | .244    |
| CAL. # | 24359   |

### The Barnes Burner™ VLC Bullet Features:

- Highly explosive
- Coated – (not moly)
- Jacketed lead-core
- Bench rest accuracy
- Cheap to Shoot
- Less friction – More Velocity
- Available in 100 and 250 packs

NEW



# BARNES BURNER™ VARMIN-A-TOR™ BULLET

Taking varmint hunting to new extremes in explosive accuracy.



## LOOKS AS GOOD ON PAPER AS IT DOES IN THE FIELD



BARNES VARMIN-A-TOR

### The Barnes Burner™ Varmint-A-Tor™ Bullet Features:

- Highly explosive
- Uncoated
- Scored nose cavity
- Jacketed lead-core
- Bench rest accuracy
- Cheap to Shoot
- Available in 100 and 250 packs

**22 CAL.** NEW

|        |        |
|--------|--------|
| DIA.   | .224"  |
| WGT.   | 40 GR  |
| TYPE   | "VMTR" |
| DENS.  | .114   |
| COEF.  | .175   |
| CAT. # | 22429  |

**22 CAL.** NEW

|        |        |
|--------|--------|
| DIA.   | .224"  |
| WGT.   | 50 GR  |
| TYPE   | "VMTR" |
| DENS.  | .142   |
| COEF.  | .217   |
| CAT. # | 22439  |

**6MM** NEW

|        |        |
|--------|--------|
| DIA.   | .243"  |
| WGT.   | 58 GR  |
| TYPE   | "VMTR" |
| DENS.  | .139   |
| COEF.  | .191   |
| CAT. # | 24329  |

**6MM** NEW

|        |        |
|--------|--------|
| DIA.   | .243"  |
| WGT.   | 72 GR  |
| TYPE   | "VMTR" |
| DENS.  | .174   |
| COEF.  | .244   |
| CAT. # | 24339  |

The Barnes Burner Varmint-A-Tor™ bullet has all the accurate and explosive tendencies sought after by varmint shooters at the right price – CHEAP!

A scored nose cavity and thin, tapered jacket assures that this bullet will vaporize anything in its path.

BARNES VARMIN-A-TOR

WWW.BARNESBULLETS.COM



# XPB™ PISTOL BULLETS

Delivering more energy than any other available pistol bullet.



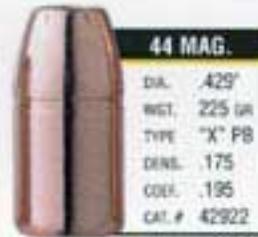
*The all-copper XPB Pistol Bullet increases penetration by 25% over lead-core bullets, while remaining intact to expand like no other bullet in the world.*

**X P B P I S T O L B U L L E T**

*Craig Olsen and a unique whitetail taken in Kansas. The buck had 9 points on one side and six on the other and scored 170. It was taken with one shot using a 7mm 140 gr. Barnes XLC.*



*Dwight van Brunt, with Kimber Manufacturing, was dall sheep hunting in Alaska with Stoney River Lodge. He took a 103 yard shot using a Kimber Model 84M. 308 Winchester with a 130 gr. XLC.*



### The XPB™ Pistol Bullet Features:

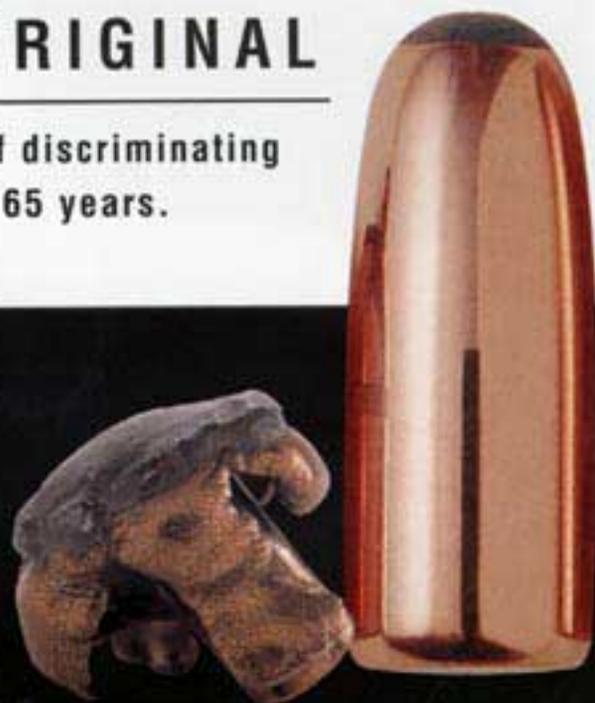
- X-Bullet technology
- Increased penetration over jacketed lead-core bullets
- Expands like no other
- Superior weight retention
- Offered in factory ammunition



## COPPER-JACKET/LEAD CORE BARNES ORIGINAL

The preferred bullet of discriminating hunters for more than 65 years.

*In 1932, this bullet started it all. Designed to the personal specifications of Fred Barnes for his own use on big game, the Barnes Original quickly gained favor in circles of serious hunters for its stopping power.*



### BARNES ORIGINALS



**6 MM**  
DIA. .243"  
WGT. 115 GR  
TYPE RNSP  
JKT. .030"  
DENS. 290  
COEF. .322  
CAT. # 24330



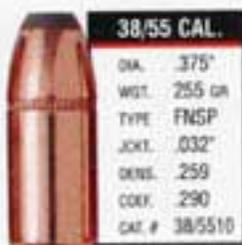
**.348 WIN.**  
DIA. .348"  
WGT. 220 GR  
TYPE FNPS  
JKT. .032"  
DENS. 260  
COEF. .301  
CAT. # 34805



**.348 WIN.**  
DIA. .348"  
WGT. 250 GR  
TYPE FNPS  
JKT. .032"  
DENS. 295  
COEF. .327  
CAT. # 34810



**.375 WIN.**  
DIA. .375"  
WGT. 250 GR  
TYPE FNPS  
JKT. .032"  
DENS. 259  
COEF. .290  
CAT. # 375W20



**38/55 CAL.**  
DIA. .375"  
WGT. 255 GR  
TYPE FNPS  
JKT. .032"  
DENS. 259  
COEF. .290  
CAT. # 38/5510



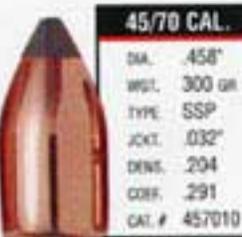
**38/55 CAL.**  
DIA. .377"  
WGT. 255 GR  
TYPE FNPS  
JKT. .032"  
DENS. 256  
COEF. .290  
CAT. # 38/5520



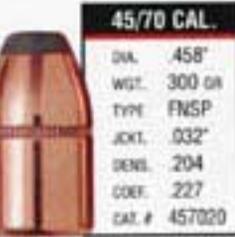
**401 WIN.**  
DIA. .406"  
WGT. 250 GR  
TYPE RNSP  
JKT. .032"  
DENS. 217  
COEF. .241  
CAT. # 40610



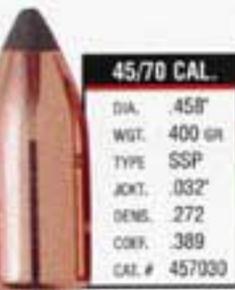
**40/65 WIN.**  
DIA. .406"  
WGT. 250 GR  
TYPE FNPS  
JKT. .032"  
DENS. 217  
COEF. .231  
CAT. # 40611



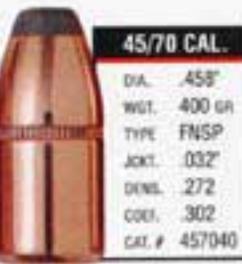
**45/70 CAL.**  
DIA. .458"  
WGT. 300 GR  
TYPE SSP  
JKT. .032"  
DENS. 294  
COEF. .291  
CAT. # 457010



**45/70 CAL.**  
DIA. .458"  
WGT. 300 GR  
TYPE FNPS  
JKT. .032"  
DENS. 294  
COEF. .227  
CAT. # 457020



**45/70 CAL.**  
DIA. .458"  
WGT. 400 GR  
TYPE SSP  
JKT. .032"  
DENS. 272  
COEF. .389  
CAT. # 457030



**45/70 CAL.**  
DIA. .458"  
WGT. 400 GR  
TYPE FNPS  
JKT. .032"  
DENS. 272  
COEF. .302  
CAT. # 457040



**458 MAG.**  
DIA. .458"  
WGT. 600 GR  
TYPE RNSP  
JKT. .049"  
DENS. 409  
COEF. .454  
CAT. # 45880



**50/110 WIN.**  
DIA. .510"  
WGT. 300 GR  
TYPE FNPS  
JKT. .032"  
DENS. 165  
COEF. .183  
CAT. # 5011010



**50/110 WIN.**  
DIA. .510"  
WGT. 450 GR  
TYPE FNPS  
JKT. .032"  
DENS. 247  
COEF. .274  
CAT. # 5011020

- First custom made bullet for hand loaders
- Thick copper jacket and pure lead core
- Expands to 200% of its original diameter
- Expands at 1900 FPS
- Retains 70-90% of its original weight

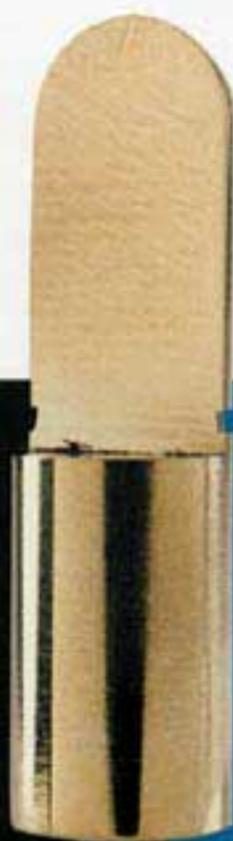


# BARNES SOLIDS

Unbeatable stopping power for hunting dangerous game.



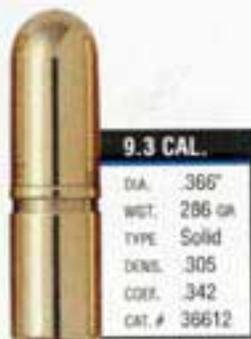
*Barnes' round-nose solids are made of a copper/zinc alloy for tough, bone-shattering shots on dangerous game. The homogeneous metal does not disintegrate or deflect upon impacting bone.*



- Made of tough copper/zinc alloy
- Penetrates dangerous game like no other
- Good for varmints and fur bearing animals
- Does not disintegrate or deflect with bone impacts.
- Made in round nose and spitzer design.
- Offered in 22 cal. to 600 Nitro
- Offered in 50 cal. BMG for long range shooting
- World Record holder at 1000 yards

## BARNES SOLIDS

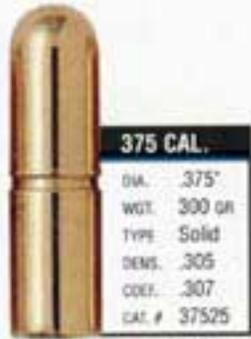
|  <table border="1"> <thead> <tr><th>22 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .224"</td></tr> <tr><td>WGT. 45 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .128</td></tr> <tr><td>COEF. .212</td></tr> <tr><td>CAT. # 22401</td></tr> </tbody> </table>  | 22 CAL. | DIA. .224" | WGT. 45 GR  | TYPE Solid | DENS. .128 | COEF. .212 | CAT. # 22401 |  <table border="1"> <thead> <tr><th>22 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .224"</td></tr> <tr><td>WGT. 50 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .142</td></tr> <tr><td>COEF. .235</td></tr> <tr><td>CAT. # 22402</td></tr> </tbody> </table>   | 22 CAL.  | DIA. .224" | WGT. 50 GR  | TYPE Solid | DENS. .142 | COEF. .235 | CAT. # 22402 |  <table border="1"> <thead> <tr><th>6MM</th></tr> </thead> <tbody> <tr><td>DIA. .243"</td></tr> <tr><td>WGT. 75 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .181</td></tr> <tr><td>COEF. .330</td></tr> <tr><td>CAT. # 24301</td></tr> </tbody> </table>       | 6MM      | DIA. .243" | WGT. 75 GR  | TYPE Solid | DENS. .181 | COEF. .330 | CAT. # 24301 |  <table border="1"> <thead> <tr><th>6MM</th></tr> </thead> <tbody> <tr><td>DIA. .243"</td></tr> <tr><td>WGT. 85 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .206</td></tr> <tr><td>COEF. .353</td></tr> <tr><td>CAT. # 24302</td></tr> </tbody> </table>       | 6MM      | DIA. .243" | WGT. 85 GR  | TYPE Solid | DENS. .206 | COEF. .353 | CAT. # 24302 |  <table border="1"> <thead> <tr><th>25 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .257"</td></tr> <tr><td>WGT. 75 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .162</td></tr> <tr><td>COEF. .297</td></tr> <tr><td>CAT. # 25718</td></tr> </tbody> </table>  | 25 CAL. | DIA. .257" | WGT. 75 GR  | TYPE Solid | DENS. .162 | COEF. .297 | CAT. # 25718 |
|--|---------|------------|-------------|------------|------------|------------|--------------|---|----------|------------|-------------|------------|------------|------------|--------------|---|----------|------------|-------------|------------|------------|------------|--------------|---|----------|------------|-------------|------------|------------|------------|--------------|--|---------|------------|-------------|------------|------------|------------|--------------|
| 22 CAL.  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .224"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 45 GR   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .128   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .212   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 22401   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 22 CAL.  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .224"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 50 GR   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .142   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .235   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 22402   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 6MM  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .243"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 75 GR   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .181   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .330   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 24301   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 6MM  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .243"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 85 GR   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .206   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .353   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 24302   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 25 CAL.  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .257"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 75 GR   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .162   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .297   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 25718   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
|  <table border="1"> <thead> <tr><th>25 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .257"</td></tr> <tr><td>WGT. 90 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .195</td></tr> <tr><td>COEF. .324</td></tr> <tr><td>CAT. # 25720</td></tr> </tbody> </table>  | 25 CAL. | DIA. .257" | WGT. 90 GR  | TYPE Solid | DENS. .195 | COEF. .324 | CAT. # 25720 |  <table border="1"> <thead> <tr><th>6.5 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .264"</td></tr> <tr><td>WGT. 120 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .246</td></tr> <tr><td>COEF. .453</td></tr> <tr><td>CAT. # 26411</td></tr> </tbody> </table> | 6.5 CAL. | DIA. .264" | WGT. 120 GR | TYPE Solid | DENS. .246 | COEF. .453 | CAT. # 26411 |  <table border="1"> <thead> <tr><th>270 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .277"</td></tr> <tr><td>WGT. 130 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .242</td></tr> <tr><td>COEF. .448</td></tr> <tr><td>CAT. # 27720</td></tr> </tbody> </table> | 270 CAL. | DIA. .277" | WGT. 130 GR | TYPE Solid | DENS. .242 | COEF. .448 | CAT. # 27720 |  <table border="1"> <thead> <tr><th>270 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .277"</td></tr> <tr><td>WGT. 150 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .279</td></tr> <tr><td>COEF. .307</td></tr> <tr><td>CAT. # 27722</td></tr> </tbody> </table> | 270 CAL. | DIA. .277" | WGT. 150 GR | TYPE Solid | DENS. .279 | COEF. .307 | CAT. # 27722 |  <table border="1"> <thead> <tr><th>7MM</th></tr> </thead> <tbody> <tr><td>DIA. .284"</td></tr> <tr><td>WGT. 100 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .177</td></tr> <tr><td>COEF. .343</td></tr> <tr><td>CAT. # 28401</td></tr> </tbody> </table>     | 7MM     | DIA. .284" | WGT. 100 GR | TYPE Solid | DENS. .177 | COEF. .343 | CAT. # 28401 |
| 25 CAL.  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .257"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 90 GR   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .195   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .324   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 25720   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 6.5 CAL.   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .264"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 120 GR  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .246   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .453   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 26411   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 270 CAL.   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .277"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 130 GR  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .242   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .448   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 27720   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 270 CAL.   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .277"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 150 GR  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .279   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .307   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 27722   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 7MM  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .284"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 100 GR  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .177   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .343   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 28401   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
|  <table border="1"> <thead> <tr><th>7MM</th></tr> </thead> <tbody> <tr><td>DIA. .284"</td></tr> <tr><td>WGT. 160 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .283</td></tr> <tr><td>COEF. .522</td></tr> <tr><td>CAT. # 28432</td></tr> </tbody> </table>     | 7MM     | DIA. .284" | WGT. 160 GR | TYPE Solid | DENS. .283 | COEF. .522 | CAT. # 28432 |  <table border="1"> <thead> <tr><th>7MM</th></tr> </thead> <tbody> <tr><td>DIA. .284"</td></tr> <tr><td>WGT. 175 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .310</td></tr> <tr><td>COEF. .321</td></tr> <tr><td>CAT. # 28433</td></tr> </tbody> </table>      | 7MM      | DIA. .284" | WGT. 175 GR | TYPE Solid | DENS. .310 | COEF. .321 | CAT. # 28433 |  <table border="1"> <thead> <tr><th>30 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .308"</td></tr> <tr><td>WGT. 110 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .166</td></tr> <tr><td>COEF. .337</td></tr> <tr><td>CAT. # 30811</td></tr> </tbody> </table>  | 30 CAL.  | DIA. .308" | WGT. 110 GR | TYPE Solid | DENS. .166 | COEF. .337 | CAT. # 30811 |  <table border="1"> <thead> <tr><th>30 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .308"</td></tr> <tr><td>WGT. 125 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .188</td></tr> <tr><td>COEF. .372</td></tr> <tr><td>CAT. # 30812</td></tr> </tbody> </table>  | 30 CAL.  | DIA. .308" | WGT. 125 GR | TYPE Solid | DENS. .188 | COEF. .372 | CAT. # 30812 |  <table border="1"> <thead> <tr><th>30 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .308"</td></tr> <tr><td>WGT. 165 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .248</td></tr> <tr><td>COEF. .481</td></tr> <tr><td>CAT. # 30822</td></tr> </tbody> </table> | 30 CAL. | DIA. .308" | WGT. 165 GR | TYPE Solid | DENS. .248 | COEF. .481 | CAT. # 30822 |
| 7MM  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .284"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 160 GR  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .283   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .522   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 28432   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 7MM  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .284"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 175 GR  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .310   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .321   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 28433   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 30 CAL.  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .308"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 110 GR  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .166   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .337   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 30811   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 30 CAL.  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .308"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 125 GR  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .188   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .372   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 30812   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 30 CAL.  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .308"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 165 GR  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .248   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .481   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 30822   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
|  <table border="1"> <thead> <tr><th>30 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .308"</td></tr> <tr><td>WGT. 220 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .331</td></tr> <tr><td>COEF. .305</td></tr> <tr><td>CAT. # 30842</td></tr> </tbody> </table> | 30 CAL. | DIA. .308" | WGT. 220 GR | TYPE Solid | DENS. .331 | COEF. .305 | CAT. # 30842 |  <table border="1"> <thead> <tr><th>8MM</th></tr> </thead> <tbody> <tr><td>DIA. .323"</td></tr> <tr><td>WGT. 220 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .301</td></tr> <tr><td>COEF. .294</td></tr> <tr><td>CAT. # 32332</td></tr> </tbody> </table>      | 8MM      | DIA. .323" | WGT. 220 GR | TYPE Solid | DENS. .301 | COEF. .294 | CAT. # 32332 |  <table border="1"> <thead> <tr><th>338 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .338"</td></tr> <tr><td>WGT. 225 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .281</td></tr> <tr><td>COEF. .506</td></tr> <tr><td>CAT. # 33821</td></tr> </tbody> </table> | 338 CAL. | DIA. .338" | WGT. 225 GR | TYPE Solid | DENS. .281 | COEF. .506 | CAT. # 33821 |  <table border="1"> <thead> <tr><th>338 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .338"</td></tr> <tr><td>WGT. 250 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .313</td></tr> <tr><td>COEF. .326</td></tr> <tr><td>CAT. # 33825</td></tr> </tbody> </table> | 338 CAL. | DIA. .338" | WGT. 250 GR | TYPE Solid | DENS. .313 | COEF. .326 | CAT. # 33825 |  <table border="1"> <thead> <tr><th>35 CAL.</th></tr> </thead> <tbody> <tr><td>DIA. .358"</td></tr> <tr><td>WGT. 250 GR</td></tr> <tr><td>TYPE Solid</td></tr> <tr><td>DENS. .285</td></tr> <tr><td>COEF. .313</td></tr> <tr><td>CAT. # 35822</td></tr> </tbody> </table> | 35 CAL. | DIA. .358" | WGT. 250 GR | TYPE Solid | DENS. .285 | COEF. .313 | CAT. # 35822 |
| 30 CAL.  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .308"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 220 GR  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .331   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .305   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 30842   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 8MM  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .323"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 220 GR  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .301   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .294   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 32332   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 338 CAL.   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .338"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 225 GR  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .281   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .506   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 33821   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 338 CAL.   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .338"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 250 GR  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .313   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .326   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 33825   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| 35 CAL.  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DIA. .358"   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| WGT. 250 GR  |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| TYPE Solid   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| DENS. .285   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| COEF. .313   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |
| CAT. # 35822   |         |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |   |          |            |             |            |            |            |              |  |         |            |             |            |            |            |              |



**9.3 CAL.**  
 DIA. .366"  
 WGT. 286 GR  
 TYPE Solid  
 DENS. .305  
 COEF. .342  
 CAT. # 36612



**375 CAL.**  
 DIA. .375"  
 WGT. 270 GR  
 TYPE Solid  
 DENS. .275  
 COEF. .284  
 CAT. # 37512



**375 CAL.**  
 DIA. .375"  
 WGT. 300 GR  
 TYPE Solid  
 DENS. .305  
 COEF. .307  
 CAT. # 37525



**416 CAL.**  
 DIA. .416"  
 WGT. 350 GR  
 TYPE Solid  
 DENS. .289  
 COEF. .364  
 CAT. # 41628



**416 CAL.**  
 DIA. .416"  
 WGT. 400 GR  
 TYPE Solid  
 DENS. .330  
 COEF. .388  
 CAT. # 41660



**404 JEFF/425 EXP**  
 DIA. .423"  
 WGT. 400 GR  
 TYPE Solid  
 DENS. .319  
 COEF. .361  
 CAT. # 42330



**458 MAG.**  
 DIA. .458"  
 WGT. 400 GR  
 TYPE Solid  
 DENS. .272  
 COEF. .321  
 CAT. # 45825



**458 MAG.**  
 DIA. .458"  
 WGT. 450 GR  
 TYPE Solid  
 DENS. .306  
 COEF. .362  
 CAT. # 45840



**458 MAG.**  
 DIA. .458"  
 WGT. 500 GR  
 TYPE Solid  
 DENS. .341  
 COEF. .394  
 CAT. # 45855



**50 CAL.**  
 DIA. .505"  
 WGT. 525 GR  
 TYPE Solid  
 DENS. .294  
 COEF. .344  
 CAT. # 50505



**50 CAL.**  
 DIA. .510"  
 WGT. 525 GR  
 TYPE Solid  
 DENS. .288  
 COEF. .342  
 CAT. # 51005



**50 CAL.**  
 DIA. .505"  
 WGT. 600 GR  
 TYPE Solid  
 DENS. .336  
 COEF. .395  
 CAT. # 50520



**50 CAL.**  
 DIA. .510"  
 WGT. 600 GR  
 TYPE Solid  
 DENS. .330  
 COEF. .391  
 CAT. # 51020



**577 NITRO**  
 DIA. .585"  
 WGT. 650 GR  
 TYPE Solid  
 DENS. .271  
 COEF. .296  
 CAT. # 58505



**577 NITRO**  
 DIA. .585"  
 WGT. 750 GR  
 TYPE Solid  
 DENS. .313  
 COEF. .351  
 CAT. # 58520



**600 NITRO**  
 DIA. .620"  
 WGT. 900 GR  
 TYPE Solid  
 DENS. .334  
 COEF. .380  
 CAT. # 62020



**50 BMG**  
 DIA. .510"  
 WGT. 750 GR  
 TYPE Solid  
 DENS. .412  
 COEF. 1.070  
 CAT. # 510750A



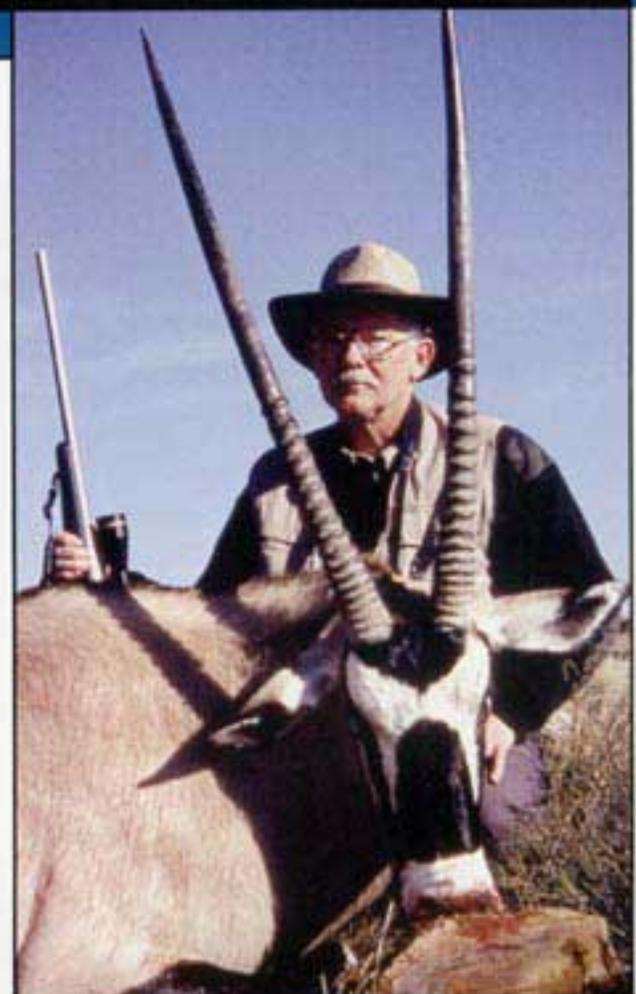
**50 BMG**  
 DIA. .510"  
 WGT. 750 GR  
 TYPE Solid  
 DENS. .412  
 COEF. 1.070  
 CAT. # 510750



**50 BMG**  
 DIA. .510"  
 WGT. 750 GR  
 TYPE Solid  
 DENS. .412  
 COEF. 1.070  
 CAT. # 510750T



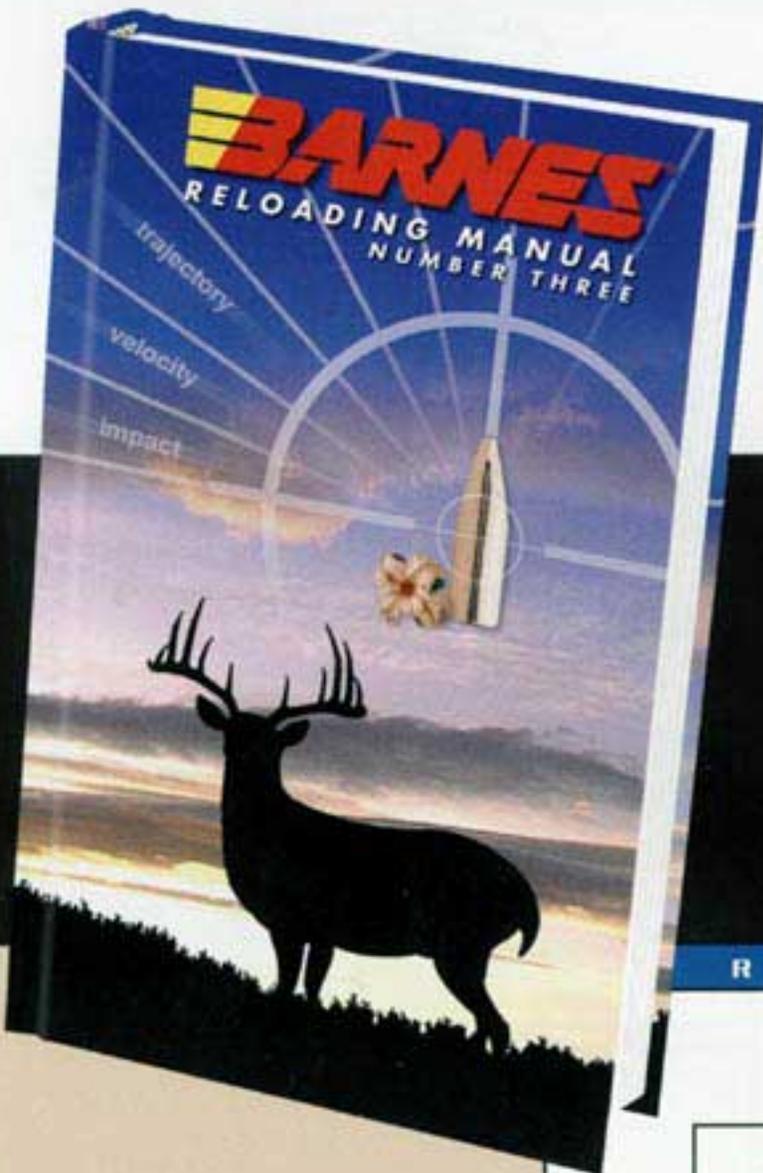
**50 BMG**  
 DIA. .510"  
 WGT. 800 GR  
 TYPE Solid  
 DENS. .439  
 COEF. 1.095  
 CAT. # 510800A



*Tony Kinto's PH in South Africa was more than impressed with the bullet performance of his 300 Remington SAUM and the 165 gr. XLC bullets. By the time the safari was over, he and his assistants could talk of little else. Spectacular performance on all eight animals that were taken. Tony is an Outdoor Writer and photographer.*



**Tough copper/zinc alloy does not disintegrate or deflect with bone impacts.**



## THE PREMIER GUIDE FOR BULLET RELOADERS

For the hunter who has everything,  
including intelligence.

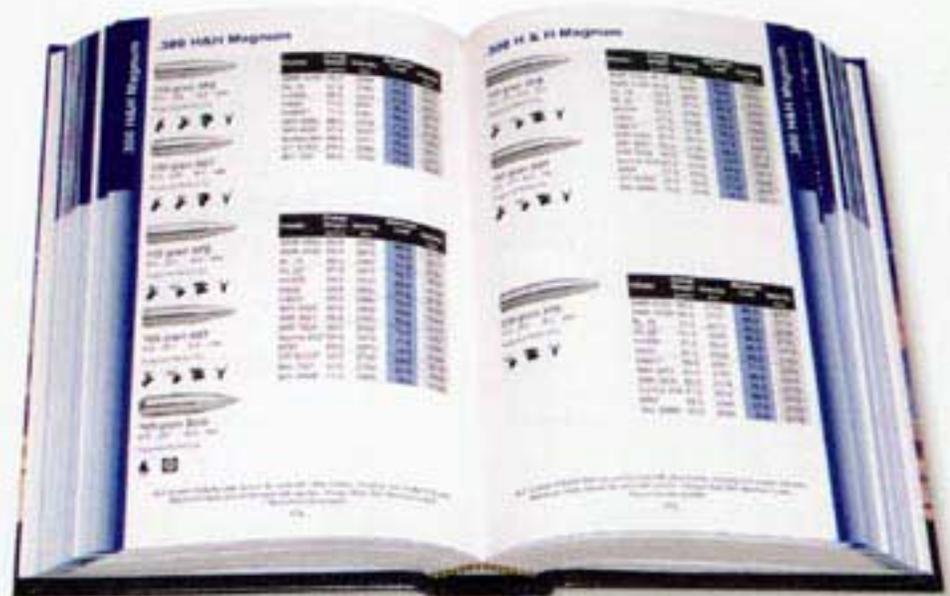
*"This new manual is written for hunters by hunters. It is a culmination of various perspectives from different parts of the world and all walks of life."*

**Randy Brooks,  
President  
Barnes Bullets**

RELOADING MANUAL NO. 3

The Barnes Reloading Manual Number 3 is more than 750 pages of the most useful information for both the novice and experienced shooter. This comprehensive manual features:

- New Cartridge Data
- XLC and VLC Data
- Helpful Tips and How-to Articles by experienced and practical shooters
- Accuracy Loads Noted
- Easy-to-Read Charts and Load Tables
- Stunning Full-color Photos of hunters and their trophies.



*Dr. Heber Simmons used a 300 WSM and the new 168 gr. XLC in South Africa to take this prized bushbuck. Dr. Simmons says, "My score is 15 shots - 15 animals. Many thanks for such great bullets!"*

## BARNES X-BULLET SHIRTS & HATS



Expanded Bullet T-Shirt  
(Back)



Expanded Bullet T-Shirt  
(Front)



Tracks Shirt  
(Back)



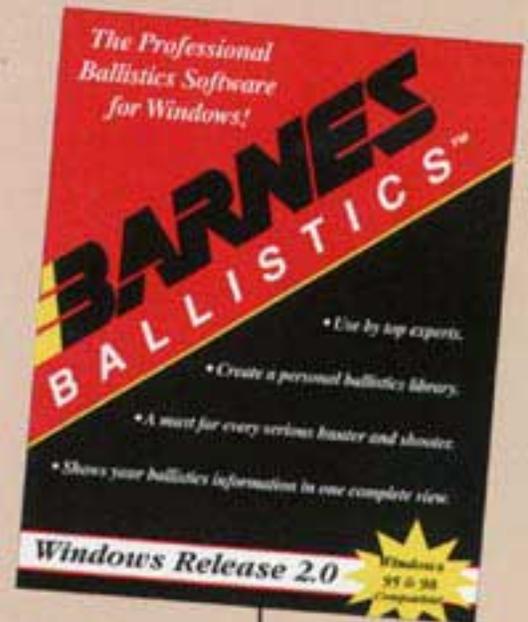
Tracks Shirt  
(Front)



Expanded Bullet Hat



Tracks Hat

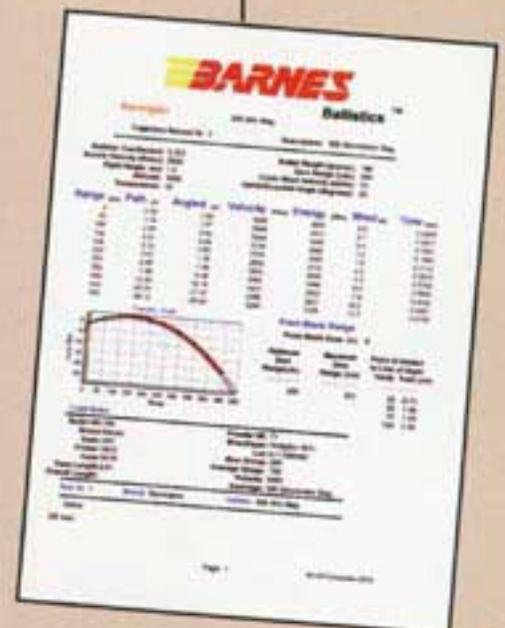


### Barnes Ballistics Software Features:

- Create a personal ballistics library for every shooting situation
- Create easy-to-read charts and graphs
- Compare loads, trajectory, recoil, and optimum zero
- Shows ballistics information in one complete view
- Available for download at [www.barnesbullets.com](http://www.barnesbullets.com)

### CR-10 Bore Cleaner:

- Removes heavy copper and powder residue
- Aggressive
- Non-Corrosive
- Won't harm barrels
- Leaves rifling clean for better accuracy and longer barrel life
- Easier to maintain accuracy





*Hunting in Botswana is a local community project with the community benefiting financially from Safari's. Johnny Bliznak took this live camera shot of the elephant that he eventually was successful in harvesting with his 416 and a 400 gr. Barnes Solid. The elephant had a tremendous tusk weight of 75 lbs. per tusk.*

# BARNES BULLETS FOR THOSE WHO AREN'T RELOADERS

For those hunters who aren't reloaders and want the stopping power of Barnes Bullets.

### FEDERAL RIFLE BULLETS

- 25-06 100 GR. BARNES XLC
- 270 WIN. 130 GR. BARNES XLC
- 300 WIN. 180 GR. BARNES XLC
- 30-06 180 GR. BARNES XLC
- 388 WIN 150 GR. BARNES XLC
- 7MM 160 GR. BARNES XLC



### FEDERAL SHOTGUN SLUG

- 12 GAUGE 2-3/4" 3/4 OZ. BARNES EXPANDER SGS
- 12 GAUGE 2-3/4" 1 OZ. BARNES EXPANDER SGS
- 12 GAUGE 3" 1 OZ. BARNES EXPANDER SGS
- 20 GAUGE 3" 3/4 OZ. BARNES EXPANDER SGS



### PMC GOLD LINE RIFLE BULLETS

- 7MM REM. 140 GR. BARNES XLC
- 308 WIN. 150 GR. BARNES XLC
- 30-06 150/165/180 GR. BARNES XLC
- 300 WIN. 150 GR. BARNES XLC
- 338 WIN. 225 GR. BARNES XLC
- 375 H&H 270 GR. BARNES XLC



### WEATHERBY RIFLE BULLETS

- 240 WBY 90 GR. X-BULLET
- 257 WBY 115 GR. X-BULLET
- 270 WBY 140 GR. X-BULLET
- 7MM WBY 150 GR. X-BULLET
- 300 WBY 180 GR. X-BULLET
- 340 WBY 225 GR. X-BULLET
- 30-378 WBY 180 GR. X-BULLET
- 30-378 WBY 225 GR. X-BULLET
- 378 WBY 270 GR. X-BULLET
- 416 WBY 350 GR. X-BULLET
- 460 WBY 450 GR. X-BULLET
- 338-378 WBY 225 GR. X-BULLET



[www.weatherby.com](http://www.weatherby.com)



### BLACK HILLS AMMUNITION

- 270 130 GR. BARNES XLC
- 308 WIN. 168 GR. BARNES XLC
- 30-06 180 GR. BARNES XLC
- 300 WIN. 180 GR. BARNES XLC

[www.black-hills.com](http://www.black-hills.com)



### TAURUS

- 45 ACP 185 GR.
- BARNES XPB PISTOL BULLET

[www.taurususa.com](http://www.taurususa.com)

### SAKO RIFLE BULLETS

- 222 REM. 50 GR. X-BULLET
- 308 WIN. 165 GR. X-BULLET
- 30-06 - 180 GR. X-BULLET
- 9.3 x 62 250 GR. X-BULLET
- 9.3 x 74R 250 GR. X-BULLET
- 9.3 x 66 SAND 286 GR. X-BULLET
- 9.3 x 66 SAND 286 GR. SOLID

[www.sako.fi](http://www.sako.fi)



*Ken Labrum had a once in a lifetime opportunity to hunt Rocky Mountain Big Horn Sheep in the Nine Mile Range Creek area of Utah. His success came with using a 257 Weatherby Magnum and a 100 gr. XLC. The sheep scored 191.*



*To the good folks at Barnes, Just wanted to thank you for making such a great bullet. I just returned from my first South African Safari where I took 10 animals – all with Barnes X-Bullets. I used the 300 gr. Barnes X in my 375 H&H and the 115 gr. Barnes X in my 257 Weatherby. My shots with the 257 Weatherby tended to be fairly long, mostly around 200 yards with the longest being 350 yards at a mountain reedbeek. Results were outstanding both in accuracy and in bullet performance. In every case, the bullet went all the way through (some length-wise), immediately dropping the animal. I took kudu, gemsbok, and wildebeest with the 375 H&H and the performance was even more amazing (if that is possible). Talk about dropping in their tracks!*

Kurt Chamberlain

*Your bullets are the best I have used in the last 30 years of reloading!*

Al Cogburn

*It makes a hunt so much more enjoyable when you have 100% confidence in the performance of your gear.*

Gene Maxson

*At Perfection Hunting we hunt in all sorts of extremes. From the Desert Country in the Northern Territory of Australia, the tropics in New Caledonia and the Ice fields in the South of New Zealand. We recommend Barnes projectiles to all of our clients because success depends on consistent performance.*

Dudley Nicol

*When I arrived in Tanzania for my hunt the first question from the PH Cliff Walker was, "What caliber gun are you shooting?" He was cautiously optimistic with our selection of the 375 H&H. He carries a .577 Nitro! The second question was "What bullet?" When we told him the Barnes X-Bullet for the first round, I could tell he felt better.*

Bill S. Campbell.

*My guide Harry Fourie insisted we come to Africa with only Barnes Bullets in our belts and in retrospect it was the best advice he could have given. I took a kudu and gembuck along with many other trophies. My 338 Winchester Magnum Sako absolutely loved your 225 gr. X-bullets. No exaggeration. I have never fired a more predictable and dependable combination of gun and ammo. Thank you for being a MAJOR contributor to my most exciting hunt to date.*

Rich Hartlaub

*My caribou went down with one shot using a 338 Winchester and a 225 gr. XLC bullet. You have an excellent product. An awesome hunt thanks to the good people at Barnes.*

Paul Lyman

*I never hesitate to sing (or print) praises of your bullets. Keep up the good work.*

Joe Byers  
Hunting Field Editor

*My PH told me the performance I got with the Barnes XLC 165 grain in the 300 Remington SAUM was clearly the best he had ever seen. All eight animals I took dropped with one shot. Spectacular!*

Tony Kinto  
Outdoor Writer/Photographer

*On a recent trip to Africa my daughter who did most of the shooting used a 30-06 and 200 gr. X-Bullets. The animals she successfully took all went down with one shot. The shots ranged from 70 yards to 320 yards. I personally was very impressed with their performance and I have a very happy daughter.*

Bob Adams

*I just completed another great hunt thanks to your bullets. I shot a great Montana buck at 395 yards with our 130 gr. X-Bullet in our little .308 rifle. The bullet performed flawlessly and capped off an awesome hunt for a terrific buck. Keep up the great work!*

Ryan Busse

*I wanted to drop you a line and say thanks. I took my first elk this year using my Browning A Bolt II .270 and your 150 gr. XBT bullets. I took a perfect 6X6 in Washington near Ellensburg, and only needed one shot. Your bullets work far better in my rifle than any others.*

Michael McDaniel

*Your bullets are deadly and accurate and they have never let me down.*

Jeff Swiney

*I waited a lifetime to hunt wild sheep and trusted the shot to a Barnes XLC. One shot anchored my grand ole ram. I have 100% confidence in Barnes Bullets.*

Dwight Van-Brunt – Kimber Manufacturing.

*I remain a Barnes Supporter and express so regularly on the most popular internet hunting talk forums.*

Nick Caico



*Dan Ungs 14 years old had a chance in a lifetime hunt – on the Manti-LaSalle in Utah to harvest this 340 class bull with a 308 Winchester and a 150 gr. Barnes XLC. This hunt and many others was sponsored by Karl Malone. Dan was one of many youths to participate in Karl's generous campaign to get more youth involved in hunting.*



*Jerry and Wendy Lee were on their third trip to Africa and took this very nice East African Impala with a 416 and a 350 gr. Barnes X-Bullet.*

**Q. How can I improve accuracy with the X-Bullet?**

- A. 1. Because X-Bullets are solid copper, they have different pressure characteristics compared to conventional jacketed bullets. In our lab, we have found best pressures and accuracy when X-bullets are seated .030" – .070" off the lands (grooves or riflings) of a rifle. The majority of the time, optimum conditions are experienced at .050" off the lands, so start there. Then, move backward or forward in .005-.010" increments to find the "sweet spot" for your particular rifle.
2. Thoroughly clean your barrel with an aggressive copper remover (Barnes CR-10 or Sweets 7.62). Our solid copper X-Bullet is made of a softer material compared to jacketed bullets. Be sure to clean out any jacketed fouling in your barrel before you shoot X-Bullets. We have found jacketed fouling to diminish accuracy with our bullet.

**Q. What kind of accuracy can I expect with Barnes X-Bullets?**

- A. The X-Bullets have no separate jacket and core which eliminates the concentricity problems that occur with conventional lead-core bullets. Properly hand-loaded, X-Bullets deliver excellent groups. We receive phone calls and e-mail daily from our customers that report groups as good as they've ever fired from their hunting rifles.

**Q. Will the pure copper X-Bullet cause increased copper fouling in my rifle bore?**

- A. While the X-Bullets are made of pure copper, they're heat treated in a way that reduces fouling. If you start with a clean bore, X-Bullets shouldn't cause any significant increase in fouling.

**Q. What kind of penetration can I expect with the X-Bullet?**

- A. Our tests have shown that the X-Bullet can be expected to penetrate 28 percent deeper than lead-core bullets will. This is attributed to the X-Bullet's high weight retention and superior expansion design. While lead-core bullets expand to produce a relatively smooth mushroom shape, the frontal section of the X-Bullet peels back to form four sharp-edged copper petals. These petals help the X-Bullet slice its way through game—contributing to superior penetration.

**Q. Can I shoot the X-Bullet in my single shot pistol?**

- A. Because the X-Bullet opens at velocities as low as 1600 fps, it is the ideal choice for single-shot hunting pistols. Unlike conventional pistol bullets designed for handgun velocities, the X-Bullet also performs well at magnum speeds.

**Q. If I shoot the X-Bullet at high velocity, will it come apart like lead-core bullets often do?**

- A. Because of its heat-treated solid copper design, the X-Bullet remains in one piece and retains nearly 100 percent of its weight, even at extreme velocities.

**Q. When I use the X-Bullet, should I choose a lighter bullet than I'd normally use?**

- A. Because the X-Bullet retains nearly 100% of its original weight and penetrates so well many shooters do select a lighter weight X-bullet over a heavier-weight conventional bullet. The lighter X-Bullet gives them higher velocities and a flatter trajectory and still out-performs heavier bullets of conventional design.

**Q. Will the X-Bullet's longer length cause an increase in pressure when I shoot it in my rifle?**

- A. Because X-Bullets are made of pure copper, which has a lighter specific gravity than lead, they're longer than conventional lead bullets of the same weight. We've done extensive pressure testing with the X-Bullet and have found that its extra length causes no significant increase in pressure. As a matter of fact, we've found that because there's no slugging in the bore with our heat-treated copper X-Bullets, they deliver higher velocities than you get with conventional bullets fired at the same pressure.

*Note: Whenever a major handloading component is changed, it's necessary to reduce the powder charge then work up to maximum safe levels.*

**Q. At what velocity will the cavity of the X-Bullet open up?**

- A. Rifle X-Bullets begin to open up and expand at impact velocities as low as 1600 fps, regardless of caliber. Muzzleloader, pistol and shotgun projectiles will function as low as 900 fps. All bullet runs are carefully tested to ensure they meet this minimum standard. Most lead-core bullets require velocities at least 200 to 400 fps or higher before they begin to expand.

**Q. Will the X-Bullet open up on light skinned game like antelope and deer?**

- A. The X-Bullet has a hollow cavity that extends from the nose backward some 1/3 of the bullet's length. When the bullet strikes game, a hydraulic effect is immediately created that forces the cavity open. The nose peels back into its characteristic "X" shape, which causes a devastating wound channel without affecting penetration. We have experienced perfect expansion on animals as small as African dik dik, measuring only 5 inches in body width, as well as on western coyotes. While the bullet passes completely through these animals, little energy is actually wasted. The X-Bullet is a highly efficient killer of light-skinned game.

**Q. In your Barnes reloading manual, how does your reloading data compare to other manufacturers?**

- A. Because our bullet is a completely different make-up (solid-copper) our data is usually lighter. Therefore, we always recommend using our data when possible.



*Barnes factory rep, Kraig Kolka, with his Illinois whitetail taken with a 50 caliber 250 grain Barnes Expander MZ.*

**Q. Why does Barnes offer a bullet with a coating on it and how will it affect my shooting?**

A. The new high-tech coating Barnes applies to the XLC Bullets brings a whole new technology to shooting. This super high-tech dry film lubricant not only reduces the friction in the bore, but significantly cuts down on the copper fouling from the bullet and increases velocity up to 200 fps. In our tests we have shown that your gun will shoot cooler, allowing you to shoot more shots between cleanings. In all, this new coating will do more to prolong the life of your gun and help you shoot better groups than any of the "home applied" coatings will.

**Q. Is your coating Moly?**

A. No. We experimented with Moly in our lab and we didn't find consistent, beneficial results. Therefore, we co-developed our own formula a solid dry-film, we call XLC coating.

**Q. Will your XLC's coat or build-up in my barrel?**

A. No. One of the major benefits of our coating is that it won't coat your barrel. It is designed to burn clean. It will not leave any residue in your barrel whatsoever. We shoot thousands of rounds through our test barrels without any XLC build-up.

**Q. How do I get your XLC coating out of my barrel?**

A. XLC coating DOES NOT coat your barrel. If your are seeing blue in your barrel while cleaning, it is probably residue from the reaction between the ammonia in the CR-10 and the copper fouling in your barrel. Once your barrel is completely clean, there won't be any discoloration on your patches.

**Q. Is the 168 XLC the same as the 165 XLC? Is it really a match grade hunting bullet?**

A. The new 168 XLC BT has a tangent o'give that has shown us superb accuracy downrange. It is the best of both worlds because it is still a premium hunting bullet.

**Q. What are the Barnes Solids used for?**

A. The round-nose Barnes Solid bullets are designed to give maximum penetration on dangerous game. The spitzer solids are recommended when minimal pelt damage is desired. Some Barnes Solids, like our 50-caliber BMG, are used as target bullets because they're manufactured to such tight tolerances.

**Q. At what velocity will the Barnes Originals expand?**

A. The originals will start expanding at about 1900 fps.

**Q. What makes the Barnes Ballistics Program different from other ballistics programs?**

A. The Barnes Ballistics Program is a comprehensive software package that allows the shooter to compile a great deal of useful information about how his or her rifle shoots. The program deals primarily with exterior ballistics—i.e., trajectory tables, bullet drop, etc. The Barnes program has all the basics the other programs have, but includes such useful "extras" as calculating the lead necessary to hit a moving target, point blank impact calculations and great graphing capabilities. Even inexperienced shooters have no trouble using this user-friendly, menu-driven program.

**Q. Is it better for a hunting bullet to travel completely through an animal and exit the far side, or remain in the game?**

A. To provide a clean, humane kill, the bullet should penetrate as deeply as possible. Deep penetration creates a larger wound channel than shallower penetration does and the larger wound channel results in more one-shot kills. When a bullet stops before deep penetration has occurred, this is often a sign of bullet failure due to loss of weight. If a bullet is stopped by an animal's front shoulder, maximum energy transfer fails to reach the vital organs. If the bullet exits the animal, energy transfer has occurred along the entire length of the bullet's path. Tissue destruction, not foot pounds of energy, causes a quick humane kill.

**Q. What makes your VLC's and Varmin-A-tors better than other varmint bullets?**

A. The nose of both bullet styles are scored and are very explosive in comparison to other bullets out there. Also, they are very accurate. The coated VLC's reduce fouling and pressure, so that accuracy won't be compromised after a varmint shooter's extended shooting sessions.

**Q. How effective is CR-10™ as a bore cleaner?**

A. The Barnes CR-10™ Bore Cleaning Solvent is the most effective bore cleaner available. It is specifically formulated to remove copper fouling and does so very efficiently. CR-10™ has additional detergents that remove powder residue.

**Q. When using the CR-10 cleaner, why are my patches coming out blue?**

A. The ammonia in CR-10 will react with the copper in your barrel and throw off blue residue. We recommend running soaked patches through your barrel until they come out white. Also, run a dry patch on a jag or nylon brush down the barrel when finished to ensure any excess CR-10 is wiped out.

**Q. What twist rates will work for the Expander MZ's**

|        |     |             |     |     |             |
|--------|-----|-------------|-----|-----|-------------|
| A. .45 | 195 | Up to 1:30" | .54 | 275 | Up to 1:34" |
| .50    | 250 | Up to 1:32" | .54 | 325 | Up to 1:34" |
| .50    | 300 | Up to 1:28" |     |     |             |

*\*Occasionally a 1:28" will not be fast enough*

**Q. What does your aligner tool do?**

A. Our MZ aligner tool was designed for easier loading. One end is the diameter of the nose of our MZ and the other end is threaded to fit snugly on the end of your ramrod. The tool is designed to limit nose damage as you are seating the MZ for optimum accuracy.



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