BECAUSE ALL RIFLES ARE NOT CREATED EQUAL!

Federal® introduces ... TRU® Tactical Rifle Urban Ammunition

Custom-made ammunition for your urban rifle.

Today’s Law Enforcement Officers need an ammunition that is specifically designed for use in semi-automatic and automatic rifles, “Urban Rifles.” Most of these rifles are variants of the M-16 or AR-15. We’ve designed TRU with these rifles in mind. Federal TRU ammunition is engineered using MIL-QUALITY specifications. Each Federal TRU cartridge is made using select mil-quality low flash powders that do not disrupt an officer’s night vision. The TRU case and web are built using thicker brass, adding the extra strength needed for the high powered rifle. TRU primers are crimped for added holding ability. This virtually eliminates backed out primers that can lock-up your weapon. With TRU ammunition, potentially disastrous situations are greatly reduced. TRU bullets are specifically engineered ranging from fragmenting designs for tactical entry to deeper penetrating bullets for patrol. This is particularly important in today’s urban settings.

For more information on TRU and other Federal products, please visit our web-site.

TACTICAL® BONDED Ammunition

Tough! TACTICAL BONDED high-performance duty ammunition has no equal. Test after test, TACTICAL out performs conventional bullets, even through the toughest of barriers. TACTICAL’s bonded core produces large uniform expansion, with penetration performance to match. When conditions range from clear shots to glass barriers, urban to rural, TACTICAL is the PROVEN CHOICE for Law Enforcement Professionals.

TACTICAL BONDED unequaled performance through glass barriers.

www.le.atk.com

Federal Cartridge Company
900 Ehlen Drive
Anoka, MN  55303

To learn about the location of our next Wound Ballistic Workshop please contact:

PHONE: 800-256-8685
<table>
<thead>
<tr>
<th>Caliber</th>
<th>Wound Characteristics</th>
<th>Stats</th>
<th>Recovered Bullet</th>
</tr>
</thead>
<tbody>
<tr>
<td>T223D</td>
<td></td>
<td>Bullet Weight: 40 Gr.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Velocity: 3270 FPS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Penetration: 5.75&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Expansion: .355&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Retained Wt: 9.4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Percent Wt. Retained: 23.50%</td>
<td></td>
</tr>
<tr>
<td>T223A</td>
<td></td>
<td>Bullet Weight: 55 Gr.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Velocity: 2774 FPS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Penetration: 7.75&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Expansion: .523&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Retained Wt: 50.6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Percent Wt. Retained: 92.00%</td>
<td></td>
</tr>
<tr>
<td>T223E</td>
<td></td>
<td>Bullet Weight: 55 Gr.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Velocity: 2815 FPS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Penetration: 11.25&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Expansion: .3955&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Retained Wt: 16.8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Percent Wt. Retained: 30.55%</td>
<td></td>
</tr>
<tr>
<td>T223F</td>
<td></td>
<td>Bullet Weight: 55 Gr.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Velocity: 2845 FPS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Penetration: 11.50&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Expansion: .227&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Retained Wt: 10.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Percent Wt. Retained: 18.18%</td>
<td></td>
</tr>
<tr>
<td>T223L</td>
<td></td>
<td>Bullet Weight: 64 Gr.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Velocity: 2646 FPS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Penetration: 12.00&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Expansion: .4935&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Retained Wt: 44.1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Percent Wt. Retained: 68.91%</td>
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<tr>
<td>AE223</td>
<td></td>
<td>Bullet Weight: 55 Gr.</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Velocity: 2869 FPS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Penetration: 14.50&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Expansion: .211&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Retained Wt: 19.8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Percent Wt. Retained: 36.00%</td>
<td></td>
</tr>
<tr>
<td>LE223T1</td>
<td></td>
<td>Bullet Weight: 55 Gr.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Velocity: 2705 FPS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Penetration: 14.75&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Expansion: .469&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Retained Wt: 55.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Percent Wt. Retained: 100.00%</td>
<td></td>
</tr>
<tr>
<td>LE223T3</td>
<td></td>
<td>Bullet Weight: 62 Gr.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Velocity: 2716 FPS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Penetration: 16.00&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Expansion: .4955&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Retained Wt: 60.9</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Percent Wt. Retained: 98.23%</td>
<td></td>
</tr>
</tbody>
</table>

Expansion, Retained Weight and Percentage Retained Weight are based on the largest available bullet fragment.
<table>
<thead>
<tr>
<th>Caliber</th>
<th>Wound Characteristics</th>
<th>Stats</th>
<th>Recovered Bullet</th>
</tr>
</thead>
</table>
| T223D        |                       | Bullet Weight: 40 Gr.  
Velocity: 3270 FPS  
Penetration: 9.00"  
Expansion: .32"  
Retained Wt: 12.7  
Percent Wt. Retained: 31.75% | ![Image]          |
| T223E        |                       | Bullet Weight: 55 Gr.  
Velocity: 2815 FPS  
Penetration: 11.00"  
Expansion: .3865"  
Retained Wt: 23.6  
Percent Wt. Retained: 42.91% | ![Image]          |
| T223A        |                       | Bullet Weight: 55 Gr.  
Velocity: 2774 FPS  
Penetration: 11.50"  
Expansion: .4785"  
Retained Wt: 46.4  
Percent Wt. Retained: 84.36% | ![Image]          |
| T223F        |                       | Bullet Weight: 55 Gr.  
Velocity: 2845 FPS  
Penetration: 12.00"  
Expansion: .223"  
Retained Wt: 10.3  
Percent Wt. Retained: 18.73% | ![Image]          |
| AE223        |                       | Bullet Weight: 55 Gr.  
Velocity: 2869 FPS  
Penetration: 12.25"  
Expansion: .2325"  
Retained Wt: 44.3  
Percent Wt. Retained: 80.55% | ![Image]          |
| T223L        |                       | Bullet Weight: 64 Gr.  
Velocity: 2646 FPS  
Penetration: 12.25"  
Expansion: .5115"  
Retained Wt: 48.10  
Percent Wt. Retained: 75.16% | ![Image]          |
| LE223T1      |                       | Bullet Weight: 55 Gr.  
Velocity: 2705 FPS  
Penetration: 15.50"  
Expansion: .461"  
Retained Wt: 55.0  
Percent Wt. Retained: 100.00% | ![Image]          |
| LE223T3      |                       | Bullet Weight: 62 Gr.  
Velocity: 2716 FPS  
Penetration: 17.00"  
Expansion: .448"  
Retained Wt: 62.0  
Percent Wt. Retained: 100.00% | ![Image]          |

Expansion, Retained Weight and Percentage Retained Weight are based on the largest available bullet fragment.
## Caliber | Wound Characteristics | Stats | Recovered Bullet
--- | --- | --- | ---
T223D | TRU 223 - 40 Gr. HP | Bullet Weight: 40 Gr. velocity: 3270 FPS
Penetration: 6.25” Expansion: .385” Retained Wt: 14.4
Percent Wt. Retained: 36.00% | ![Bullet Image]

T223E | TRU 223 - 55 Gr. BTHP | Bullet Weight: 55 Gr. velocity: 2815 FPS
Penetration: 9.00” Expansion: .2585” Retained Wt: 5.2
Percent Wt. Retained: 9.45% | ![Bullet Image]

T223F | TRU 223 - 55 Gr. Ballistic Tip | Bullet Weight: 55 Gr. velocity: 2845 FPS
Penetration: 9.00” Expansion: .273” Retained Wt: 11.0
Percent Wt. Retained: 20.00% | ![Bullet Image]

T223A | TRU 223 - 55 Gr. SP | Bullet Weight: 55 Gr. velocity: 2774 FPS
Penetration: 9.50” Expansion: .365” Retained Wt: 25.9
Percent Wt. Retained: 47.09% | ![Bullet Image]

LE223T1 | TACTICAL 223 - 55 Gr. BSP | Bullet Weight: 55 Gr. velocity: 2705 FPS
Penetration: 10.75” Expansion: .4715” Retained Wt: 44.1
Percent Wt. Retained: 80.18% | ![Bullet Image]

T223L | TRU 223 - 64 Gr. SP | Bullet Weight: 64 Gr. velocity: 2646 FPS
Penetration: 11.25” Expansion: .368” Retained Wt: 27.2
Percent Wt. Retained: 42.50% | ![Bullet Image]

LE223T3 | TACTICAL 223 - 62 Gr. BSP | Bullet Weight: 62 Gr. velocity: 2716 FPS
Penetration: 14.25” Expansion: .4365” Retained Wt: 54.4
Percent Wt. Retained: 87.74% | ![Bullet Image]

AE223 | American Eagle 223 - 55 Gr. FMJ | Bullet Weight: 55 Gr. velocity: 2869 FPS
Penetration: 16.00” Expansion: .2335” Retained Wt: 54.1
Percent Wt. Retained: 98.36% | ![Bullet Image]

---

Expansion, Retained Weight and Percentage Retained Weight are based on the largest available bullet fragment.
### 223 REM 5.56 NATO

**Wallboard**

- **Firearm:** Colt M4
- **Barrel:** 14.5"
- **Twist Rate:** 1x7"
- **Range:** 10 Yards

<table>
<thead>
<tr>
<th>Caliber</th>
<th>Wound Characteristics</th>
<th>Stats</th>
<th>Recovered Bullet</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>T223A</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| TRU 223 - 55 Gr. SP | ![Bullet Image] | Bullet Weight: 55 Gr.  
Velocity: 2774 FPS  
Penetration: 7.25"  
Expansion: .4685"  
Retained Wt: 31.5  
Percent Wt. Retained: 57.27% |

| **T223D**   |                        |       |                  |
| TRU 223 - 40 Gr. HP | ![Bullet Image] | Bullet Weight: 40 Gr.  
Velocity: 3270 FPS  
Penetration: 7.25"  
Expansion: .347"  
Retained Wt: 4.7  
Percent Wt. Retained: 11.75% |

| **T223F**   |                        |       |                  |
Velocity: 2845 FPS  
Penetration: 8.5"  
Expansion: .2605"  
Retained Wt: 11.8  
Percent Wt. Retained: 21.45% |

| **AE223**   |                        |       |                  |
Velocity: 2869 FPS  
Penetration: 11.25"  
Expansion: .2155"  
Retained Wt: 20.2  
Percent Wt. Retained: 36.73% |

| **T223L**   |                        |       |                  |
| TRU 223 - 64 Gr. SP | ![Bullet Image] | Bullet Weight: 64 Gr.  
Velocity: 2646 FPS  
Penetration: 12.25"  
Expansion: .376"  
Retained Wt: 20.0  
Percent Wt. Retained: 31.25% |

| **T223E**   |                        |       |                  |
| TRU 223 - 55 Gr. BTHP | ![Bullet Image] | Bullet Weight: 55 Gr.  
Velocity: 2815 FPS  
Penetration: 12.5"  
Expansion: .422"  
Retained Wt: 21.0  
Percent Wt. Retained: 38.18% |

| **LE223T1** |                        |       |                  |
| TACTICAL 223 - 55 Gr. BSP | ![Bullet Image] | Bullet Weight: 55 Gr.  
Velocity: 2705 FPS  
Penetration: 14.00"  
Expansion: .4645"  
Retained Wt: 53.7  
Percent Wt. Retained: 97.64% |

| **LE223T3** |                        |       |                  |
| TACTICAL 223 - 62 Gr. BSP | ![Bullet Image] | Bullet Weight: 62 Gr.  
Velocity: 2716 FPS  
Penetration: 17.75"  
Expansion: .4205"  
Retained Wt: 62.0  
Percent Wt. Retained: 100.00% |

*Expansion, Retained Weight and Percentage Retained Weight are based on the largest available bullet fragment.*
<table>
<thead>
<tr>
<th>Caliber</th>
<th>Wound Characteristics</th>
<th>Stats</th>
<th>Recovered Bullet</th>
</tr>
</thead>
</table>
| **T223D**  |                       | Bullet Weight: 40 Gr.  
Penetration: 6.50"  
Expansion: .3685"  
Retained Wt: 10.5  
Percent Wt. Retained: 26.25% | ![Image] |
| **AE223**  |                       | Bullet Weight: 55 Gr.  
Penetration: 10.00"  
Expansion: .233"  
Retained Wt: 45.3  
Percent Wt. Retained: 82.36% | ![Image] |
| **T223A**  |                       | Bullet Weight: 55 Gr.  
Penetration: 10.50"  
Expansion: .4305"  
Retained Wt: 10.2  
Percent Wt. Retained: 73.09% | ![Image] |
| **T223E**  |                       | Bullet Weight: 55 Gr.  
Penetration: 11.25"  
Expansion: .41"  
Retained Wt: 30.9  
Percent Wt. Retained: 56.18% | ![Image] |
| **T223L**  |                       | Bullet Weight: 64 Gr.  
Penetration: 12.25"  
Expansion: .425"  
Retained Wt: 45.9  
Percent Wt. Retained: 71.72% | ![Image] |
| **T223F**  |                       | Bullet Weight: 55 Gr.  
Penetration: 13.75"  
Expansion: .223"  
Retained Wt: 9.6  
Percent Wt. Retained: 17.45% | ![Image] |
| **LE223T1**|                       | Bullet Weight: 55 Gr.  
Penetration: 15.00"  
Expansion: .4585"  
Retained Wt: 55.0  
Percent Wt. Retained: 100.00% | ![Image] |
| **LE223T3**|                       | Bullet Weight: 62 Gr.  
Penetration: 17.50"  
Expansion: .4295"  
Retained Wt: 60.6  
Percent Wt. Retained: 97.74% | ![Image] |

Expansion, Retained Weight and Percentage Retained Weight are based on the largest available bullet fragment.
### 223 REM 5.56 NATO

**Glass**

**Firearm:** Colt M4  
**Barrel:** 14.5"  
**Twist Rate:** 1x7"  
**Range:** 10 Yards

<table>
<thead>
<tr>
<th>Caliber</th>
<th>Wound Characteristics</th>
<th>Stats</th>
<th>Recovered Bullet</th>
</tr>
</thead>
</table>
| **T223D**     |                        | Bullet Weight: 40 Gr.  
                |                         | Velocity: 3270 FPS  
                |                         | Penetration: 1.50"  
                |                         | Expansion: .0"  
                |                         | Retained Wt: 0.0  
                |                         | Percent Wt. Retained: 0.00% |
| **T223A**     |                        | Bullet Weight: 55 Gr.  
                |                         | Velocity: 2774 FPS  
                |                         | Penetration: 2.25"  
                |                         | Expansion: .0"  
                |                         | Retained Wt: 0  
                |                         | Percent Wt. Retained: 0.00% |
| **AE223**     |                        | Bullet Weight: 55 Gr.  
                |                         | Velocity: 2869 FPS  
                |                         | Penetration: 3.25"  
                |                         | Expansion: .359"  
                |                         | Retained Wt: 15.2  
                |                         | Percent Wt. Retained: 27.64% |
| **T223E**     |                        | Bullet Weight: 55 Gr.  
                |                         | Velocity: 2815 FPS  
                |                         | Penetration: 6.25"  
                |                         | Expansion: .4"  
                |                         | Retained Wt: 19.2  
                |                         | Percent Wt. Retained: 34.91% |
| **T223L**     |                        | Bullet Weight: 64 Gr.  
                |                         | Velocity: 2646 FPS  
                |                         | Penetration: 6.5"  
                |                         | Expansion: .406"  
                |                         | Retained Wt: 22.0  
                |                         | Percent Wt. Retained: 34.38% |
| **T223F**     |                        | Bullet Weight: 55 Gr.  
                |                         | Velocity: 2845 FPS  
                |                         | Penetration: 8.25"  
                |                         | Expansion: .223"  
                |                         | Retained Wt: 9.8  
                |                         | Percent Wt. Retained: 17.82% |
| **LE223T1**   |                        | Bullet Weight: 55 Gr.  
                |                         | Velocity: 2705 FPS  
                |                         | Penetration: 11.5"  
                |                         | Expansion: .3555"  
                |                         | Retained Wt: 27.6  
                |                         | Percent Wt. Retained: 50.18% |
| **LE223T3**   |                        | Bullet Weight: 62 Gr.  
                |                         | Velocity: 2716 FPS  
                |                         | Penetration: 13.50"  
                |                         | Expansion: .354"  
                |                         | Retained Wt: 33.7  
                |                         | Percent Wt. Retained: 54.35% |

Expansion, Retained Weight and Percentage Retained Weight are based on the largest available bullet fragment.