Battle Rifle Cartridges

This chapter delves into the powerful cartridges used in battle rifles, designed for long-range accuracy and stopping power.

“The Backbone of Modern Firepower”

- .277 TVCM

.277 TVCM

.277 TrueVelocity (TVCM) is a polymer composite cased cartridge developed by a Texas based company called TrueVelocity. It is one of three entrants into the 6.8 NGSW program.

Cartridge Name	Bullet Mass (g)	Velocity (m/s) from 500mm Barrel	Ballistic Coefficient	Max Range (m) @ 35c	Damage	Penetration	Caliber (mm)	RHA Penetration (MM)	Flesh Penetration (MM)	Concrete Pen (MM)
XM1168 Ball	9.072	914	0.45	2050	12	1.5	7mm	20.565	342.75	109.68
XM1169 Match	10.036	950	0.725	2550	17.5	0.6	7mm	8.55	142.5	45.6
XM1170 AP	9.5	875	0.475	2000	13.4	2.5	7mm	32.8125	546.875	175
XM1171 HAPI	18.144	820	0.35	1300	19	4	7mm	49.2	820	262.4

Damage.png

Velocity (m_s).png

ballistic-coefficient.png

RHA Penetration (MM), Flesh Penetration (MM) and Concrete Pen (MM).png

Ballistic Coefficient.png

Bullet Drop in MRAD @ 15c.png