



Member from 2nd Battalion Royal Newfoundland Regiment from Corner Brook Newfoundland - Canada

5.56MM IMPROVED PERFORMANCE (IP)

As one of the world's leading designers and manufacturers of small calibre ammunition, General Dynamics Ordnance and Tactical Systems Canada is constantly producing new products that keep pace with evolving customer needs. This includes the new 5.56mm Improved Performance cartridge, a recent addition to the 5.56mm family of ammunition.

Designed for use with NATO 5.56mm weapons, this heavy-metal free cartridge (Toxfree®) is more robust and penetrating than standard 5.56mm ball ammunition.

Features

- Patented one piece steel core that reduces barrel wear
- Ballistic match with NATO ball round
- Accuracy similar to Canadian ball round (C77)
- Lead and heavy-metal free projectile
- Completely non-toxic primer
- Improved penetration in soft and hard targets
- Does not break up when fired into gelatine blocks

Advantages

- More robust design
- Improved penetration in CRISAT and mild steel targets
- No more range contamination
- Equivalent or better lethality than ball rounds in soft targets
- Full functionality at extreme temperatures (-54°C - +52°C)

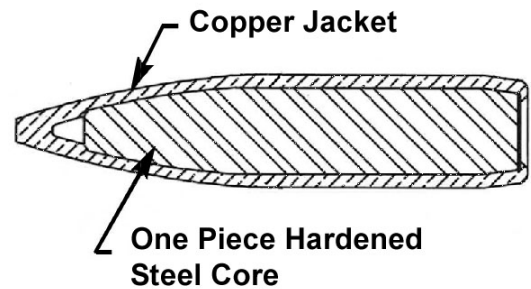


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Physical characteristics

Cartridge weight	12.1g
Projectile weight	3.9g (60 grains)
Projectile core	Hardened steel
Jacket	Copper
Cartridge case	Brass
Propellant	Ball powder*
Primer	Toxfree*



Performance of IP cartridges

The 5.56mm meets the following NATO test criteria:

- Precision
- Barrel wear and erosion
- Bullet extraction
- Function and casualty
- Ballistic match
- Penetration
- Primer sensitivity
- Propellant and primer test
- Waterproofness
- EPVAT
- Climatic storage
- Temperature test procedure (high and low)

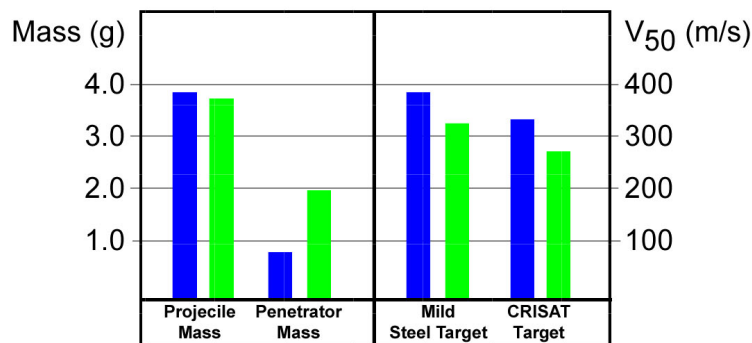
Terminal Ballistics

The 5.56mm IP projectile produces an equivalent probability of incapacitation as standard ball projectiles. This has been demonstrated through extensive testing in 20% ordnance gelatine block on unprotected and CRISAT protected targets.



Integrity of IP projectile after travelling 46cm into gelatine block fired at a range of 0.1m

Comparison of IP and Canadian ball round (C77)



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