

SWORDENERGETICS



TNT

Trinitrotoluene — Castable High Explosive (UN 0209)

TNT (Trinitrotoluene) is a widely used castable high explosive known for its excellent thermal stability, melt-cast capability, and consistent detonation properties. It serves as a foundational energetic material for military, demolition, and munition-filling applications.

SWORD Energetics supplies TNT in pressed flake or molten-castable form, meeting MIL-DTL-248D and STANAG specifications. Its low sensitivity, cost-effectiveness, and compatibility with other energetic compounds make it ideal for filling artillery shells, aerial bombs, demolition charges, and composite explosive blends such as Amatol and Composition B.

PERFORMANCE SPECS

Velocity of Detonation 6,900m/s

Density 1.60g/cm³

Detonation Pressure 21.0 GPa

Heat of Explosion 4,650 kJ/kg

Oxygen Balance -74.0%

Impact Sensitivity 15 J

Friction Sensitivity 240 N

Melting Point 80.8°C

PACKAGING INFO

Packaging Type Steel Drum or Cast Charge Block

Weight Per Unit 25kg (flake) or 5kg (block)

Units Per Pallet 12 drums or 50 blocks

Pallet Weight 300-600kg

Drum Dimensions 16" dia × 24" height

Shelf Life 10+ years

Storage Conditions ≤30°C, low humidity

HAZARD CLASSIFICATION

UN Number 0209

Hazard Class 1.1D

Compatibility Group: D



