SWORDENERGETICS



RDX

Cyclotrimethylenetrinitramine (MIL-DTL-398D, Type I & II)

RDX (Research Department Explosive), also known as cyclonite or hexogen, is a powerful and highly stable nitramine explosive. The chemical composition of RDX is C3H6N6O6, which forms a white crystalline solid. It is renowned for its high detonation velocity and pressure, making it a preferred choice for military and industrial applications.

RDX exhibits a detonation velocity of approximately 8,750 meters per second and a density of about 1.82 grams per cubic centimeter, contributing to its effectiveness in demolitions, military ordnance, and as a component in plastic explosives such as C-4. Its relative insensitivity to shock and friction enhances safety during handling and storage, although it requires careful management to prevent accidental detonation.

PERFORMANCE SPECS

PACKAGING INFO

Velocity of Detonation		Type II (Fine) 8,750 m/s	Packaging Type	Anti-static Poly-Lined Drum
Density	1.80g/cm³	1.80g/cm ³	Weight Per Unit	25kg
Detonation Pressure	34GPa	34GPa	Units Per Case	12
Heat of Explosion	6,130 kJ/kg	6,130 kJ/kg	Pallet Weight	300kg
Oxygen Balance	-21.6%	-21.6%	Drum Dimensions	16" dia x 24" height
Sensitivity	≥7 J	≥7 J	Palletization Format	50 cases per pallet
Friction Sensitivity	≥120 N	≥120 N	Shelf Life	10+ years (sealed, dry)
Particle Size	100-300 μm	<10 μm	Storage Conditions	Cool, dry, well-ventilated area

HAZARD CLASSIFICATION

UN Number	00/2
Hazard Class	1.1D

Compatibility Group:



