



PEPEX 1H

Plastic Explosive — Castable High-Velocity RDX/PETN Blend

PEPEX 1H is a castable, high-energy plastic explosive composed primarily of RDX, PETN, and plasticized binders, designed for use in shaped charges, demolition warheads, and loitering munitions. It features a stiffer consistency than PEPEX 1A, offering increased structural integrity for molded or filled applications.

PEPEX 1H delivers excellent detonation velocity, high brisance, and thermal stability in cold-weather and maritime environments. It is suited for field or factory filling of casings where consistent energy output and mechanical resilience are critical.

PERFORMANCE SPECS

Velocity of Detonation, min.	7,000 m/s
Density, min.	1,400 kg/m ³
Flash Point	150°C
Heat of Explosion	2,765 kJ/kg
Oxygen Balance	-64% O ₂
Impact Sensitivity, min.	8 J
Friction Sensitivity	160 - 240 N

PACKAGING INFO

The PEPEX 1H explosives are packaged in waxed paper. They are supplied in the form of bricks with a mass from 250 to 3,000 g according to the customer's requirements.

There are 24 or 25 kg of explosives in the transport packaging.

Composition (By Weight)

PETN	~41%
RDX	~41%
Plasticizer & Binder	~18%

HAZARD CLASSIFICATION

UN Number	0084
Hazard Class	1.1D
Compatibility Group:	D



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