



PBXN-5

Plastic Bonded Explosive

Description

PBXN-5 explosive consists of a mixture of HMX powder bound in a Fluoroelastomer matrix. The elasticity of the matrix lowers sensitivity of the bulk material to shock and friction. It comes in the form of white granular powder.

Application

PBXN-5 is used for production of pressed insensitive explosive boosters and leads in large and medium caliber ammunition. It is rigid enough to maintain a precise engineering shape even under severe stress. It can be pressed at high pressures into specific shapes at room temperature, to achieve density for the material very close to the theoretical crystal density of the base explosive material.



Specifications

Composition:	HMX: 95 ± 0.5 % Viton A: 5 ± 0.5 %
Specification:	MIL-E-81111B Types I and II
Synonyms:	HMX/Viton A – 95/05, binary
Appearance:	white solid granules
Odor/Taste:	odorless, tasteless
Granulation:	class 1, 2 and 3
Bulk Density:	0.86 g/cm ³
Loaded Density:	1.80 g/cm ³ at 40 ksi
Auto-Ignition:	309°C
Melting Point:	250°C
Critical Temp.:	223°C
Det. Pressure:	270 kbar at 1.86 g/cm ³
Det. Velocity:	8210 m/s at 1.71 g.cm ³ 8820 m/s at 1.86 g/cm ³
Heat of Formation:	31.3 kcal/mol
Detonation Heat:	1.56 kcal/g
Shipping:	
Hazard Class:	1.1D
UN Number:	0484
Shipping Name:	HMX, desensitized
Packing:	weather resistant fiberboard box with polyethylene plastic liner
Box Dimensions:	476 x 387 x 194 mm or per customer's requirements