



**JOGANIYA ENERGIES PVT LTD,  
KANGANI, BHILWARA, RAJASTHAN  
PENTA ERYTHRITOL TETRA NITRATE {PETN}**


Pentaerythritol Tetranitrate (PETN) is a white colour crystalline material. The crystals are short and Hexagonal with minimum elongates and free from needle shaped crystals, dust and visible impurities. PETN is used independently as a high explosive, as the explosive core for detonating Fuse (or) as an ingredient of composite explosives.

The most common use of PETN is as an explosive with high brisance. It is more difficult to detonate than primary explosives, so dropping or igniting it will typically not cause an explosion (at atmospheric pressure it is difficult to ignite and burns relatively slowly), but is more sensitive to shock and friction than other secondary explosives such as TNT or tetryl. Under certain conditions a deflagration to detonation transition can occur.

It is rarely used alone, but primarily used in booster and bursting charges of small caliber ammunition, in upper charges of detonators in some land mines and shells, and as the explosive core of detonation cord. PETN is the least stable of the common military explosives, but can be stored without significant deterioration for longer than nitroglycerin or nitrocellulose.

**PRODUCT SPECIFICATION:**

S.NO	PARAMETERS	UNIT	SPECIFICATION
1	Nitrogen content	%	17.0
2	Moisture content	%	25-30 for transport 0.1 Max for use
3	Stability as Able heat test		70° C for 10 minutes minimum
4	Acidity as HNO <sub>3</sub>	%	0.005
5	Flow time through 4.2 mm bore funnel	sec	225
6	Melting point	°C	139 - 142
7	Crystal shape		Rhombic
8	Bulk density	g/cc	0.80 - 0.90
9	Sieve		a) through BSS 18 : 100% b) through BSS 100: <5%

	<b>JOGANIYA ENERGIES PVT LTD, KANGANI, BHILWARA, RAJASTHAN</b>
	<b>PENTA ERYTHRITOL TETRA NITRATE {PETN}</b>

### **Storage Conditions:**

PETN is classified as an "EXPLOSIVES" and must be stored in magazines on wooden pallets/reapers.

### **Packing:**

11.25 Kgs with 25-30% moisture is packed in double lined heavy gauge polythene bags. The bag is kept in a-corrugated cartoon box.

### **Shipping Information:**

As per IMDG (International Maritime Dangerous Goods) Classifications

Class: 1, Division: 1.1, Group: D, Un No.: 0151, Page No.: 1106, Storage Category: II TYPE 'B'

As per PESO (Petroleum and Explosives Safety Organization) Classifications

ID No.: 581 ,Class: 3, Division: 2, Category: ZZ

### **Note :**

1. Special products/sizes will be supplied to suit the customers requirements.
2. packing all products are packed in approved fibre cases each containing 11.25kg (net Weight ) of explosives.