

PETN PLASTIC EXPLOSIVES

Leading worldwide specialist in the field of high explosives, EURENCO offers its customers a broad range of PETN-based Plastic Explosives for military and commercial applications, owing to high-tech manufacturing capabilities.



PRODUCT

- Commercial name: Plastic PETN, "PETN Dough" or "Detonating Dough"
- Composition:
 - 87% PETN
 - 13% binders and additives including tagging agent according to Montreal Convention
- Delivery forms:
 - Blocks from 250 to 2000 g
 - Cartridges of 125 g
 - Bulk
- Special properties:
 - Softer than for example C4 makes it easier to shape
 - Adhesion to vertical surfaces
 - Low temperature application, "Polar Dough"

CHARACTERISTICS

- Critical diameter: 3 mm
- Density: $\approx 1.5 \text{ g/cm}^3$
- Detonation velocity: 7 600 – 7 900 m/s
- Explosive heat: 5 MJ/kg
- Static spark sensibility: $> 726 \text{ mJ}$
- Impact sensitivity: 25 J
- Deflagration onset: 180 °C
- Transport classification: 1.1D

USES

PETN-based plastic explosives are produced for demolition, destruction of mines, demilitarization or as main fill in hand grenades.

Another application is the mining industry: plastic explosives are manufactured as cartridges formed as rolls and used to boost slurry explosives in mining and construction works.

PERFORMANCES

Example of detonation energies:

Charge (kg)	Distance (m)	Total detonation energy of the charge (kJ)
1	5	4.23
2.5	7	10.58
5	9	17.55

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