

Pentex™ 25FF



Description

Pentex™ 25FF is a NG-free, small-hole primer. It is intended mainly for use in tunnel rounds, since it is suitable for use with modern charging equipment using either bulk emulsions such as *Subtek™* and *Civec™* or packaged ANFO *Exan™*.

Pentex™ 25FF consists of an orange plastic tube filled with PETN based plastic explosive. The PETN gives the product more energy and a higher and more even detonation velocity compared with conventional dynamites. Since *Pentex™ 25FF* does not contain nitroglycerin, it does not cause the headaches associated with the handling of NG products, especially on skin contact.

Application

Pentex™ 25FF makes charging work easier, for it contributes to quick and rational handling. The detonator is inserted into the primer quickly and easily. The primer cartridge is then inserted into the charging hose to be deposited at the bottom of the hole during the actual charging sequence.

Special Characteristics:

- High velocity of detonation
- High density
- Safe and simple handling
- No additional tool necessary

Recommendations for Use

- Use the oldest products in magazines first.
- Store appropriately according to explosives and magazines regulation.

Technical Properties

Product	Pentex™ 25FF
Nominal cartridge diameter (mm)	15
Nominal cartridge length (mm)	150
Net explosive weight (g)	25
Shell colour	orange
Density (g/cm ³) ¹	1.45 - 1.50
Detonation velocity (m/s) ²	>6300
Explosion energy (MJ/kg) ³	4.3
Oxygen balance (%)	-12
Gas volume (l/kg)	727
Water resistance	Excellent
Weight strength (%) ⁴	127
Detonator sensitive down to (°C)	-20
Impact sensitivity (J)	15.0

Priming and Initiation

Use only detonators with a strength equivalent to Ref. Det. #3 (EN 13763-15) or stronger (at least 600 mg PETN base charge).

Ground Temperature

These products are available for use in ground temperatures - 20 °C to a maximum of +40 °C. If your application requires you to operate outside this temperature range, please contact a DEXPLOC representative.

Packaging

Pentex™ 25FF boosters are available in the following packaging:

Gross weight cartridge (g)	Gross weight box (kg)	Cartridge per box (items)
29	16	500

Storage and Handling

Product Classification

Authorised Name: *Pentex™ 25FF*
Proper Shipping Name: BOOSTER without detonator
UN No.: 0042
Classification: 1.1D
EC Type Approval: BAM 0589

Storage

Pentex™ 25FF should be stored in a suitably licensed magazine for Class 1.1D explosives.

Pentex™ 25FF boosters have a storage life of 2 years in stable, temperate conditions.

Pentex™ boosters are best stored at ambient temperatures of 0 °C to +40 °C.

Safety

Pentex™ 25FF boosters contain explosives, which can be initiated by intense impact, friction or heat. As with all high explosives, *Pentex™ 25FF* boosters should be handled and stored with care.

DO NOT use these boosters with any detonator, which cannot be completely contained within the booster. If this is not observed, damage to the detonator may occur during charging which may lead to a premature detonation.

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Notes:

1. Nominal Density Only.
2. VOD will depend on application including explosive density, blasthole diameter and degree of confinement. The VOD range is based on minimum unconfined and calculated ideal.
3. Explosion energy, Oxygen balance & Gas volume are calculated with IDEX 4.4
4. For cartridge products, the relative weight strength (MJ/kg) is always compared to dynamites as the base = 100 % (theoretically, the weight strength between different types of dynamites – can vary with small margins, depending of the calculation methods of the different manufacturers).