

Pentex™ 250 - 1700



Description

Pentex™ 250 – 1700 boosters are designed for safe and powerful initiation of bulk explosives. All *Pentex™* boosters have a center hole through the body and a recess for protection of the leg wires and shock tube. The detonator pocket protects and secures the detonator safely. *Pentex™* boosters have a strong outer shell of plastic and contain a casted body of TNT/RDX, with a cap sensitive part of PETN around the detonator pocket.

Application

Pentex™ can be used for reliable priming of booster sensitive explosions in a wide range of surface blasting applications.

Pentex™ boosters are unaffected by adverse temperatures or long storage duration. They are insensitive to water, have a high energy content and high detonation velocity. These characteristics ensure safe and effective initiation of bulk explosives.

Pentex™ boosters can be used in ground temperatures from -20 °C to a maximum of +50 °C. If your application requires you to operate outside this temperature range, please contact your DEXPLOC representative.

Key Benefits

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

Technical Properties

Product	Pentex™ 250	500	1000	1700
Nominal cartridge diameter (mm)	42	52	52	66
Nominal cartridge length (mm)	163	187	361	361
Nominal explosive mass (g)	240	480	970	1670
Shell colour	red			
Density (g/cm ³) ⁽¹⁾	1.5 ±0.1			
Detonation velocity (m/s) ⁽²⁾	>6500			
Explosion heat (kJ/kg)	4850			
Oxygen balance (%)	-50			
Water resistance	excellent			
Water resistance (bar)	3			
Detonator sensitive down to (°C)	-20			
(BAM fall hammer) (J) (3)	15			
Friction sensitivity (BAM friction instrument) (N)	>360			
Relative Effective Energy (REE)				
Relative Weight Strength (%)	172			
Relative Bulk Strength (%)	322			
Gas volume (l/kg)	770			

Priming and Initiation

Use only detonators with a strength equivalent to Ref. Det. 3 or stronger (PETN base charge >600 mg).

Recommendations for Use

- Handle with care and avoid impact.
- Store appropriately according to explosives and magazines regulation.
- Not approved for use in underground application.

dexploc TECHNICAL INFORMATION



1. Insert the detonator into the center hole.



2. Pull it out at the other side.



3. Then put the detonator into the detonator pocket beside the center hole.



4. Pull on the shock tube or leg wire so that the rubber sleeve is placed in the recess.

Packaging

Pentex™ 250 - 1700 boosters are available in the following packaging:

Product	Gross weight cartridge (g)	Gross weight box (kg)	Cartridge per box (items)
<i>Pentex™ 250</i>	285	10.30	35
<i>Pentex™ 500</i>	540	11.20	20
<i>Pentex™ 1000</i>	1100	22.60	20
<i>Pentex™ 1700</i>	1800	22.25	12

Not all products are stock items, please contact for further information.

Storage and Handling Product Classification

Authorised Name	EC Type Certificate	Identification Number
<i>Pentex™ 250</i>	0589.EXP.0565/09	BAM-SZV-059
<i>Pentex™ 500</i>	0589.EXP.0566/09	BAM-SZV-060
<i>Pentex™ 1000</i>	0589.EXP.0567/09	BAM-SZV-061
<i>Pentex™ 1700</i>	0589.EXP.0568/09	BAM-SZV-062

Proper Shipping Name: BOOSTER without detonator

UN No.: 0042

Classification: 1.1D

Storage

Pentex™ 250 - 1700 boosters should be stored in a suitably licensed magazine for Class 1.1D explosives.

Pentex™ 250 - 1700 boosters have a storage life of 2 years in stable, temperate conditions.

Pentex™ 250 - 1700 boosters are best stored at ambient temperatures of -5 °C to +30 °C.

Disposal

Disposal of explosive materials can be hazardous. Methods for safe disposal of explosives may vary depending on the user's situation. Please contact a DEXPLOC representative for information on safe practices.

Safety

Pentex™ 250 - 1700 boosters contain explosives, which can be initiated by intense impact, friction or heat. As with all high explosives, *Pentex™ 250 - 1700* boosters should be handled and stored with care.

DO NOT use these boosters with any detonator, which cannot be completely contained within the detonator pocket of the booster.

Training

This Technical Data Sheet is for information only. Boosters must only be used by personnel who have been properly trained to use this product.

DEXPLOC A/S

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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. The values relate to the high explosive without shell. The shell provides increased safety against impact and friction.
4. REE is the Effective Energy relative to ANFO at a density of 0.8 g/cm³. ANFO has an effective energy of 2.30 MJ/kg. Energies quoted are based on ideal detonation calculations with a 100 MPa cut off pressure. Non-ideal detonation energies are also available on request. These take account of blasthole diameter, rock type and explosive reaction behavior.