Technical Data Sheet

TNT-Booster

T-160, T-250, T-500, T-1000, T-1500

Description

TNT-Boosters are used for safe and powerful initiation of bulk and packaged explosives. *TNT-Boosters* are designed for simple handling without any tool. *TNT-Boosters* have a body of pressed TNT and different forms of packaging.

Application

Thanks to the high-explosive composition, *TNT-Boosters* will reliably initiate the explosives column and can therefore be used in most blasting applications.
TNT-Boosters have a very high density and a very high velocity of detonation, which ensure a good performance.
TNT-Boosters can be reliably initiated by full strength detonators or detonating cord with at least 10 g PETN/m.

Key Benefits

- Very high detonation velocity
- Very high density
- Safe and simple handling
- No additional tool necessary
- TNT boosters are approved for surface operations
- Especially designed for initiating bulk ANFO and bulk emulsion explosives, but are also suitable for the initiation of packaged explosives.

Recommendations for Use

- Not for underground.
- Initiation only with a detonator having a base charge of at least 0.6 g PETN or with a detonator of comparable strength.

Technical Properties

Product	*TNT Booster*				
	T-160	T-250	T-500	T-1000	T-1500
Nominal cartridge diameter (mm)	49±1	51.5 ±1.5	60 ±1	60.5 ±1	
Nominal cartridge length (mm)	57 ±1	117±1		234±2	351±3
Nominal explosive mass (g)	160	250	500	1000	1500
Min. initiation strength	0.6 g detonator				
Density (g/cm^3) (1)	1.5 ±0.1				
Hole type	dry and wet				
Detonation velocity (m/s) (2)	>7500				
Impact sensitivity (J)	7.36				
Friction sensitivity (J)	>353				
Explosion heat (kJ/kg)	4111				
Max. hydrostatic pressure (MPa)	0.3				
Gas volume (l/kg)	approx. 740				

Ground Temperature

These products are available for use in ground temperatures -20 °C to a maximum of +50 °C.

Packaging

Product	Envelope	Charge description
T-160	red plastic	Cylinder with a central hole of 8 mm diameter with a depth of 34 or 50 mm
T-250	red plastic	Cuboid with a central, axial hole of 10 mm diameter and a side hole of 8 mm diameter with a depth of 67 or 108 mm
T-500		Cylinder with a central, axial hole of 10. mm diameter and a side hole of 8 mm diameter with a depth of 34, 50 or 67, or 108 mm
T-1000		
T-1500		

Product	Gross weight cartridge (g)	Gross weight box (kg)	Cartridge per box (items)
T-160	160	25	140
T-250	250	26	96
T-500	500	26	48
T-1000	1000	26	24
T-1500	1500	26	16

Delivery time: Up to 80 days from firm order

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Storage and Handling
Product Classification

Authorised Name	EC Type Certificate
TNT-Booster T-160	0589.EXP.0349/05
TNT-Booster T-250	0589.EXP.3747/01
TNT-Booster T-500	0589.EXP.3748/01
TNT-Booster T-1000	0589.EXP.3749/01
TNT-Booster T-1500	0589.EXP.3750/01

Proper Shipping Name: BOOSTERS
UN No.: 0042
Classification: 1.1D

Storage
TNT-Boosters should be stored in a suitably licensed magazine for Class 1.1D explosives. The cases should be stacked in the manner designated on the cases.
TNT-Boosters have a storage life of 2 years in stable, temperate conditions.

TNT-Boosters boosters are best stored at ambient temperatures of 0 °C to +30 °C.

Disposal
Disposal of explosive materials can be hazardous. Methods of safe disposal of explosives may vary depending on the user's situation. Please contact an Orica Technical Representative for information on safe practices.

Safety
TNT-Boosters contain explosives, which can be initiated by intense impact, friction or heat. As with all high explosives, *TNT-Boosters* should be handled and stored with care.

Boosters must be handled with care and avoid impact with a solid surface or another booster. Any such collision may cause damage that could lead to a misfire, or a premature initiation.

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.

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.

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Notes
1. Nominal Density Only.
2. VOD will depend on application including explosive density blasthole diameter and degree of confinement.

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