TROJAN® SPARTAN
Cast Boosters

Technical Information

Description

TROJAN® SPARTAN cast boosters are detonator sensitive, high density, high energy molecular explosives available in various sizes designed to optimize initiation of all booster sensitive explosives. All TROJAN SPARTAN boosters are manufactured with an internal through-tunnel and detonator well for easy application with either electronic or non electric detonators or 10.6 g/m (50 gr/ft) minimum strength detonating cord. TROJAN SPARTAN boosters are formulated from the highest quality PETN and other high explosive materials ensuring reliability, consistency and durability in all blasting environments. The fluorescent green container makes the TROJAN SPARTAN booster more visible on the blast site and reduces the possibility of misplaced charges.

Features & Benefits

- The explosive composition achieves high detonation pressure and provides excellent priming efficiency.
- The range of sizes available provide priming solutions for most blast hole applications.
- The TROJAN SPARTAN Cast Booster will accept NONEL® and SmartShot electronic detonators.
- The TROJAN SPARTAN Cast Booster is recessed at one end to provide protection to the initiation line.

Properties

Density	(g/cc) Avg	1.65
Velocity	(m/sec)	7,300
	(ft/s)	24,000
Detonation Pressure (Kbars)		220
Water Resistance		6 months with no loss of sensitivity
Shelf Life Maximum		5 years (from date of production)
Maximum Water Depth (m)		90
	(ft)	300
Maximum Usage Temperature		**70**°C (150°F)

Hazardous Shipping Description
Boosters, 1.1D, UN 0042 PG II

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Australia

DYNO
Dyno Nobel
Groundbreaking Performance

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Application

NEVER force the detonator into the through-tunnel, the detonator-well or otherwise attempt to clear these areas if obstructed. If the through-tunnel or detonator-well does not accommodate the detonator, do not use the booster. Notify your Dyno Nobel representative.

ALWAYS use detonating cord with a coreload of 10.6 g/m (50 gr/ft) or higher when initiating the TROJAN SPARTAN booster with detonating cord.

Recommendations

Use - The detonator is inserted through the larger tunnel over the curved recess and into the cap well.

Priming - Minimum detonator is No. 8 strength for temperatures above -40º C (-40º F). A high strength detonator is recommended for temperatures below -40º C (-40º F).

Water Resistance – TROJAN SPARTAN Cast Booster exhibits excellent resistance to water.

Temperature Range - Extremely low temperatures do not affect the performance of cast boosters with commercial detonators. Low temperatures do affect detonators and detonating cord. Be certain your initiation system is suitable for your application in extremely low temperatures. Cast boosters are more susceptible to breakage during handling in extremely cold temperatures.

Shelf Life - For maximum shelf life of five(5)years, Dyno Nobel cast boosters must be stored in a cool, dry, well ventilated magazine. Explosive inventory should be rotated. Avoid using new materials before the old.

Sleep Time - The sleep time of the TROJAN SPARTAN Cast Booster will be limited to the recommended sleep time of the explosive it is priming or the recommended sleep time of the initiating system.

Packaging

Unit Weight/ Net Explosive Content (NEC)		Unit Dimensions				Case Quantity	Net Weight/ Case	
g	oz	Length		Diameter			kg	lbs
		cm	in	cm	in			
150	5.5	11.9	4.700	3.6	1.433	95	16.3	36
400	14	11.9	4.700	5.5	2.160	40	16.3	36

Note: All weights are approximate.

Case Dimensions

42 x 33 x 14 cm 16 ½ x 13 x 5 ½ in

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Safe handling, transportation & storage

First Aid - Detailed first aid information regarding this product is contained on the relevant Dyno Nobel Material Safety Data Sheet.

Safety - All explosives are classified as dangerous goods and can cause personal injury and damage to property if used incorrectly.

Transportation and Storage - All explosives must be handled, transported and stored in accordance with all relevant regulations. Stock should be rotated such that older product is used first.

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