

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 optimise 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.

Properties

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

Hazardous Shipping Description

Boosters, 1.1D, UN 0042 PGII



Packaging

Unit Weight / Net Explosive Content (NEC) (g)	Unit Dimensions		Units / Case	Net Weight / Case	Case Dimensions
	Length	Diameter			
150	11.9	3.6	48	16.3	42x33x14cm
400	11.9	5.5	20	16.3	42x33x14cm

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Features and Benefits

- The explosive composition achieves high detonation pressure and provides excellent priming efficiency.
- The TROJAN SPARTAN Cast Booster will accept SmartShot®, DigiShot® Plus and NONEL® detonators.
- The TROJAN SPARTAN Cast Booster is recessed at one end to provide protection to the initiation line.
- The TROJAN SPARTAN canister has been designed with a detonator retention device.

Recommendations

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 or higher when initiating the TROJAN SPARTAN booster with detonating cord.

NEVER use TROJAN Spartan boosters when in-hole temperatures exceed 70°C.

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

Priming - Minimum detonator strength is a No. 8, or 10.6 g/m detonating cord.

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

Recommendations (continued)

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.

Safe handling, transportation and 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.

Product Disclaimer The explosive products discussed in this document should only be handled by persons with the appropriate technical skills, training and licences. While Dyno Nobel has made every effort to ensure the information in this document is correct, every user is responsible for understanding the safe and correct use of the products. If you need specific technical advice or have any questions, you should contact your Dyno Nobel representative. This information is provided without any warranty, express or implied, regarding its correctness or accuracy and, to the maximum extent permitted by law, Dyno Nobel expressly disclaims any and all liability arising from the use of this document or the information contained herein. It is solely the responsibility of the user to make enquiries, obtain advice and determine the safe conditions for use of the products referred to herein and the user assumes liability for any loss, damage, expense or cost resulting from such use. © DYNO, GROUNDBREAKING PERFORMANCE, TROJAN, NONEL and the Loop device are registered trademarks of the Dyno Nobel / Incitec Pivot Group. SmartShot and DigiShot are registered trademarks of DetNet South Africa (Pty) Limited. © Dyno Nobel Asia Pacific Pty Limited 2018. Reproduction without permission strictly prohibited.