

TROJAN® NB Universal

Cast Booster

Technical
Information



Description

TROJAN® NB Universal cast booster is a detonator and detonating cord sensitive, high density, high energy, molecular explosive. The NB Universal cast booster is especially designed to optimise initiation of all cast booster sensitive and/or detonator sensitive explosives. Each NB Universal cast booster is manufactured with two internal through-tunnels and a detonator well for easy use with either detonating cord or commercial detonators. The bright yellow container enhances visibility on the bench and minimises misplaced charges.

Features and Benefits

- The explosive composition achieves high detonation pressure and provides excellent priming efficiency.
- The TROJAN NB Universal cast booster will accept SmartShot®, DigiShot® Plus and NONEL® detonators.
- The TROJAN NB Universal cast booster is recessed at one end to provide protection to the initiation line.

Properties

Density (g/cc) Avg	1.60
Velocity (km/sec)	7
Detonation Pressure (kbars)	200
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

All Dyno Nobel energy values are calculated using a proprietary Dyno Nobel thermodynamic code – Prodet. Other programs may give different values.

Hazardous Shipping Description

Boosters, 1.1D, UN 0042



Packaging

Unit Weight / Net Explosive Content (NEC)	Product Codes	Unit Dimensions		Units / Case	Net Weight / Case	Case Dimensions (cm)
		Length (cm)	Diameter (cm)			
400 g	NBU0400B	11.9	5.5	20	8 kg	33 x 21 x 14
400 g	NBU0400C	11.9	5.5	20	8 kg	33 x 21 x 14
400 g	NBU0400EX	11.9	5.5	20	8 kg	33 x 21 x 14
400 g	NBU0400N	13.6	5.5	30	12.5 kg	35 x 29 x 16

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Application Recommendations

ALWAYS use PRIMACORD® brand detonating cord for best results.

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 or detonating cord, do NOT use the booster. Notify your local Dyno Nobel representative.

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

Priming - The TROJAN NB Universal cast booster is PRIMACORD 5 (5.3 g/m) cord sensitive. Please contact your Dyno Nobel representative when using detonating cord with core loads less than 5.3 g/m.

Water Resistance – TROJAN NB Universal cast boosters exhibit excellent resistance to water.

Temperature Range – TROJAN NB Universal cast boosters can be used up to 70°C. When in hole temperatures exceed 70°C please contact your Dyno Nobel representative. Extremely low temperatures do not affect the performance of cast boosters. Cast boosters are more susceptible to breakage during handling in extremely cold temperatures.

Application Recommendations (continued)

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 NB Universal 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 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 of 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, PRIMACORD 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.