

# TROJAN® RINGPRIME®

## Technical Information



### Cast Booster



#### Product Description

TROJAN RINGPRIME cast booster is a detonator sensitive, high density, high energy molecular explosive, cast into a plastic shell. It has a single tunnel and capwell located centrally in the booster which will accept both NONEL® and DigiShot® Plus or SmartShot™ electronic initiation system detonators.

TROJAN RINGPRIME cast boosters are formulated from the highest quality PETN and other high explosive materials ensuring reliability, consistency and durability in underground environments. In addition, the top of the TROJAN RINGPRIME wells are recessed to protect the initiation line from damage and the recessed bottom allows the insertion of a loading hose to assist in positioning the primer in the borehole.

#### Application Recommendations

- The TROJAN RINGPRIME cast booster is specifically designed for use in underground angled or vertical upholes. It is ideal for priming 64mm (2.5 in) to 159mm (6.25 in) upholes loaded with ANFO, cartridge or bulk emulsion products.
- **ALWAYS** snap on the spider assembly and insert the detonator through the tunnel and into the cap well. Insert the loading hose into the recess at the bottom of the TROJAN RINGPRIME and gently push the assembly into position using the loading hose. The spider legs will lock into the side of the phole and secure the TROJAN Ringprime in place.

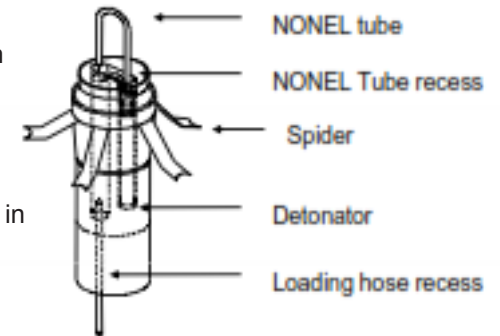
### Properties

SDS #1108

Density (g/cc) Avg	1.62
Velocity (m/sec)	7,300
(ft/s)	23,900
Detonation Pressure (Kbars)	216
Water Resistance	Excellent
Shelf Life Maximum	5 years (from date of production)
Sleep Time	Same as explosive or initiation system with which it is used
Maximum Usage Temperature	65°C (150°F)

**Hole Diameter** 125 mm / 5 in  
**Spider** 64-102 mm  
 2.5-4 in

**Hole Diameter** 187 mm / 7.4 in  
**Spider** 100-159 mm  
 4 - 6.25 in



All Dyno Nobel Inc. energy and gas volume values except Velocity and Detonation Pressure are calculated using PRODET™ the computer code developed by Dyno Nobel Inc. for its exclusive use. Other computer codes may give different values.

Velocity and Detonation Pressure are the result of empirical methods during May 2009.

#### Hazardous Shipping Description

UN 0042 Boosters, 1.1D PG II



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### Application Recommendations (continued)

- **ALWAYS** maintain a firm grip on the NONEL® tube or leg wires while loading to prevent the loss of the initiation line.
- Minimum detonator is No. 8 strength for temperatures above -40° C (-40° F). A high strength detonator is recommended for temperatures below -40° C (-40° F).
- **ALWAYS** use detonating cord with a coreload of 10.6 g/m (50 gr/ft) or higher when initiating the TROJAN RINGPRIME booster with detonating cord.
- The detachable spider is designed to centrally locate and lock the TROJAN RINGPRIME in the borehole. Other features allow the spider to unlock should the unit need to be retrieved from the borehole.
- 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.

### Transportation, Storage and Handling

- Dyno Nobel cast boosters must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.
- For maximum shelf life (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.

### Packaging

Unit Weight		Unit Dimensions				Case Quantity	Gross Weight/Case	
g	oz	Length		Diameter			kg	lbs
		cm	in	cm	in			
250	8.8	17.5	7	3.7	1.5	42	10.5	23.1

**Note:** All weights and dimensions are approximate.

### Case Dimensions

18 x 33 x 33 cm

7.1 x 13 x 13 in

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