# TECHNICAL DATA SHEET

# STER-COPOS

# TROJAN® Shield™

### **Shock Resistant Cast Booster**

**Patent Pending** 

# **Properties**

SDS #1108

**Density** (g/cc) Avg **Velocity** m/s (ft/sec)

1.65 7,550 (24,800)

**Detonation Pressure**<sup>c</sup> (Kbars)

235

**Water Resistance** 

6 months with no loss of sensitivity

**Shelf Life Maximum** 

5 years (from date of production)

Maximum Usage Temperature\*

65°C (150°F)

\*Never expose explosive materials to sources of heat exceeding 66°C (150°C) or to open flame, unless such materials or procedures for their use have been recommended for such exposure by the manufacturer.

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.

### IMPORTANT!!! WARNING!!!!! IMPORTANT!!!!!

NEVER USE A DETONATOR LESS THAN 8.89 cm / 3.5 in LONG WITH THE TROJAN SHIELD CAST BOOSTER. MISFIRES MAY RESULT.

Hazardous Shipping Description
UN 0042 Boosters, 1.1D PG II



### PRODUCT DESCRIPTION

TROJAN Shield cast boosters are detonator sensitive, high density, high energy molecular explosives available in two sizes designed to optimize initiation of all booster sensitive explosives.

In addition to the internal through-tunnel and detonator well, the TROJAN Shield cast booster utilizes a patent-pending designed internal sleeve to protect the circuit board in electronic detonators and is designed specifically for use with Dyno Nobel's DigiShot®, DigiShot Plus and EZshot® electronic detonators. The TROJAN Shield can, however, also be used with any detonator (minimum length =  $8.89~\mbox{cm}$  /  $3.5~\mbox{in}$ ) that may require additional protection from high shock, water hammer, effects during decking, corner operations or in certain geologies

The TROJAN Shield cast booster also incorporates the unique Caplock<sup>™</sup> feature which holds the detonator in place more securely and makes it more difficult for the detonator to be pulled out of the capwell position while it is being lowered into the borehole. Even with this new Caplock feature, the detonator can still be removed if necessary.

TROJAN Shield cast boosters are formulated from the highest quality PETN and other high explosive materials ensuring reliability, consistency and durability in all blasting environments.

The fluorescent yellow container makes the TROJAN Shield booster more visible on the blast site and reduces the possibility of misplaced charges.











# TROJAN® Shield™

## **Shock Resistant Cast Booster**

**Patent Pending** 

### 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.

### APPLICATION 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 a detonator with a minimum length of 8.89 cm (3.5 in). The detonator well length is 10.2 cm (4.0 in).
- 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.

# **Packaging**

TROJAN Shield Type			Unit Weight  N.E.C Net Wt.			Unit Dimensions  Length Diameter				Case Quantity	Gross Weight/ Case	
		g	oz	g	oz	cm	in	cm	in		kg	lbs
L	TR0450	378	13.3	483	17.0	11.9	4.7	5.8	2.3	36	18.1	39.9
S	TR0350	290	10.2	391	13.8	12.9	5.1	5.0	2.0	49	19.9	43.9

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

Case Dimensions

42 x 33 x 14 cm

16 ½ x 13 x 5 ½ in

ADDITIONAL INFORMATION – Visit <u>dynonobel.com</u> for Brochures and Case Studies related to this product.

any and ential or

Dyno Nobel