

# TECHNICAL DATA SHEET



## TROJAN® TWINPLEX®

### Cast Booster

#### Properties

SDS  
#1108

<b>Density</b>	g/cc avg	1.60
<b>Velocity</b>	m/sec	7,550
	ft/s	24,800
<b>Detonation Pressure</b>	Kbars	235
<b>Water Resistance</b>	6 months with no loss of sensitivity	
<b>Shelf Life Maximum</b>	5 years from date of production	
<b>Maximum Usage Temperature*</b>	66°C / 150°F	

\*Never expose explosive materials to sources of heat exceeding 66°C (150°F) 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.

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

#### Hazardous Shipping Description

- UN 0042 Boosters, 1.1D PG II



#### PRODUCT DESCRIPTION

TROJAN TWINPLEX cast boosters are detonator sensitive, high density, high energy molecular explosives designed with 2 detonator wells and an enlarged through-tunnel to accommodate the use of 2 detonators where required. TROJAN TWINPLEX 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 green container and clear printing makes the TROJAN TWINPLEX booster more visible on the blast site (as well as in low light situations) and reduces the possibility of misplaced charges. The redesigned Caplock™ 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.



#### APPLICATION RECOMMENDATIONS

- **ALWAYS** use detonator(s) only with TROJAN TWINPLEX cast boosters.
- **NEVER** use detonating cord with TROJAN TWINPLEX cast boosters. The through-tunnel has been widened to accommodate two detonators, where required. Use of detonating cord may cause misfires, which may kill or injure.

Product Disclaimer: Please see reverse side.

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#### Properties Cont.

##### Packaging

Unit Weight		Unit Dimensions				Case Quantity	Gross Weight / Case	
g	oz	Length		Diameter			kg	lbs
		cm	in	cm	in			
450	15.9	11.7	4.6	5.7	2.3	36	16.4	36.1
900	31.7	13	5.1	7.9	3.1	18	17.2	37.9

Note: All weights and dimensions are approximate.

##### Case Dimensions

42 x 33 x 14 cm      16½ x 13 x 5½ in

#### APPLICATION RECOMMENDATIONS - continued

- **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 cast booster. Notify your Dyno Nobel representative.
- 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).
- 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.

**ADDITIONAL INFORMATION** – Visit [dynonobel.com](http://dynonobel.com) for Brochures and Case Studies related to this product.

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