

# TROJAN® SPARTAN®

## Technical Information



## Cast Booster



### Product Description

TROJAN SPARTAN cast boosters are detonator sensitive, high density, high energy molecular explosives available in various sizes designed to optimize 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 electric, electronic or nonelectric 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.

### 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 detonating cord with a coreload of 10.6 g/m (50 gr/ft) or higher when initiating the TROJAN SPARTAN booster with detonating cord.

## Properties

MSDS  
#1108

Density (g/cc) Avg	1.65
Velocity (m/sec)	7,550
(ft/s)	24,800
Detonation Pressure (Kbars)	235
Water Resistance	6 months with no loss of sensitivity
Shelf Life Maximum	5 years (from date of production)
Maximum Water Depth (m)	90
(ft)	300
Maximum Usage Temperature	60°C (150°F)

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)

- 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.

### Packaging

Unit Weight/ Net Explosive Content (NEC)		Unit Dimensions				Case Quantity	Net Weight/ Case	
g	oz	Length		Diameter			kg	lbs
		cm	in	cm	in			
90	3.2	11.9	4.700	2.7	1.060	150	13.6	30
150	5.5	11.9	4.700	3.6	1.433	95	16,3	36
200	7	11.7	4.600	4.1	1.603	72	14,5	32
350	12	11.9	4.700	5.0	1.975	49	16,8	37
400	14	11.9	4.700	5.5	2.160	40	16,3	36
450	16	11.9	4.700	5.8	2.270	36	16,8	37
900	32	12.9	5.060	7.9	3.120	18	16,3	36

Note: All weights are approximate.

### Case Dimensions

42 x 33 x 14 cm

16 ½ x 13 x 5 ½ in

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