

TROJAN® SPARTAN® SL

Technical Information



Slider Cast Booster



Product Description

TROJAN SPARTAN SL cast boosters are high density, high energy molecular explosives available in various sizes. They are designed specifically for use in multiple deck blasting applications. TROJAN SPARTAN SL cast boosters are most effective when used with a short lead, nonelectric initiation system such as NONEL® SL units. SLs, like all cast boosters that carry the TROJAN name, 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 SL cast booster more visible on the blast site and reduces the possibility of misplaced charges.

Application Recommendations

- **ALWAYS** insert detonating cord into the slider-tube and not into the through-tunnel.
- Application Recommendations** (continued)

Properties

SDS
#1108

Density	(g/cc) Avg	1.65
Velocity	(m/sec)	7,300
	(ft/s)	24,000
Detonation Pressure	(Kbars)	220
Water Resistance		Excellent
		6 months with no loss of sensitivity
Shelf Life Maximum		5 years (from date of production)
Maximum Usage Temperature*		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



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- **ALWAYS** use detonating cord downlines with a coreload between 2.5 g/m (12 gr/ft) and 3.8 g/m (18 gr/ft) when using the TROJAN SPARTAN SL cast booster with NONEL SL detonators as a slider primer assembly. Lower or higher weight detonating cords are not recommended. Lower weight detonating cord will cause detonator misfires; higher weight detonating cords may circumvent the detonator delay or damage the booster prior to initiation by the detonator.
- **NEVER** use the TROJAN SPARTAN SL cast booster to make a conventional detonating cord/primer assembly. Select a TROJAN SPARTAN cast booster to make a conventional detonating cord/primer assembly.
- 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		Unit Dimensions				Case Quantity	Gross Weight / Case	
g	oz	Length		Diameter			kg	lbs
		cm	in	cm	in			
450	16	11.9	4.7	5.8	2.2	35	16.3	37.4

Note: All weights and dimensions are approximate.

Case Dimensions

42 x 33 x 14 cm

16 ½ x 13 x 5 ½ in

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