

DS Series

Technical Information



Slider Cast Booster



Product Description

The Dyno Nobel DS series cast booster is a detonator sensitive, high density, high energy molecular explosive available in a variety of sizes. The Dyno Nobel DS series cast booster is formulated to optimize initiation of all booster sensitive and/or detonator sensitive explosives. Dyno Nobel DS series boosters are specially designed to be used with NONEL SL series detonators to make-up slider primer assemblies for use with detonating cord downlines in multi-deck blasting applications. The Dyno Nobel DS series cast booster is composed of Pentolite (a mixture of TNT and PETN) and manufactured with an internal through-tunnel, detonator-well and externally attached slider-tube. The fluorescent orange container makes the booster more visible on the blast site and reduces the possibility of misplaced charges.

Application and Recommendations

- **ALWAYS** insert detonating cord into the slider-tube and not into the through-tunnel.
- **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 Dyno Nobel DS cast booster with NONEL SL detonators as a slider primer assembly. Smaller weight or higher weight detonating cords are not recommended. Smaller 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.

Properties

MSDS
#1108

Density	(g/cc)	1.60
Energy*	(cal/g)	1,370
	(cal/cc)	2,190
Velocity		7,830 m/s (25,700 ft/s)
Detonation Pressure		245 Kbars
Water Resistance		Excellent
Shelf Life Maximum		5 years (from date of production)
Maximum Water Depth		Unlimited
Temperature		+ 66° C (150° F)

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

Hazardous Shipping Description

Boosters, 1.1D, UN 0042 II, EX 9701007



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- **NEVER** use the Dyno Nobel DS series booster to make a conventional detonating cord/primer assembly. Select a Dyno Nobel CS series cast booster to make a conventional detonating cord/primer assembly.
- Minimum recommended detonator is No. 8 strength for temperatures above -40° C (-40° F). For temperatures below -40° C (-40° F), a high strength detonator is recommended.

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

Booster	Unit Weight Net Explosive Content (NEC)		Unit Dimensions				Case Type	Case Qty	Weight/ Case	
	kg	lbs	Length		Diameter				kg	lbs
			cm	in	cm	in				
DS35	0.3402	0.75	12.2	4.8	5.1	2.0	A	65	24.1	53
DS45	0.4536	1.0	12.2	4.8	5.8	2.3	B	50	24.1	53
DS90	0.9072	2.0	12.4	4.9	7.9	3.1	C	25	24.1	53

Case Dimensions

A	40 x 27 x 26 cm	15 ¾ x 10 ¾ x 10 ¼ in
B	35 x 32 x 26 cm	13 ⅝ x 12 ¾ x 10 ¼ in
C	46 x 25 x 26 cm	18 x 10 x 10 ¼ in

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