

DYNOSPLIT® C

Technical Information



Small Diameter Detonator Sensitive Continuous Packaged Watergel



Product Description

DYNOSPLIT C is a detonator-sensitive, small diameter, water resistant, packaged watergel explosive designed for both surface and underground perimeter control applications such as contour, presplit and cushion blasting. DYNOSPLIT C is manufactured as a continuous packaged watergel, crimped every 400 mm (16 in) and traced internally with detonating cord. The continuous column can be cut to fit the designed load length, doubled or tripled as necessary to increase the explosive charge weight per foot and spliced to extend its length. In addition, the continuous column provides consistent borehole pressure throughout the entire loaded zone resulting in a uniform tensile shearing effect.

Application Recommendations

- **ALWAYS** use a Dyno Nobel high strength detonator or equivalent at internal product temperatures higher than 4° C (40° F). The product remains 5.3 g/m (25 gr/ft) detonating cord sensitive to 10° C (50° F).
- **ALWAYS** use a rope of sufficient strength to support the explosive column weight whenever loading boreholes with depths exceeding 25 m (80 ft) or when the explosive column weight exceeds 57 kg (125 lb). Attach the rope along the entire length of the powder column in 2 m (6 ft) intervals and secure the rope at the borehole collar.
- **ALWAYS** prime the second cartridge from the top of the explosives column if priming DYNOSPLIT C with an electric or nonelectric detonator. Punch the cartridge a few inches from its bottom. Insert the detonator and push it down firmly towards the bottom of the cartridge/aluminum wire clip. Ensure that the detonator is in close proximity to the internal detonating cord. Using the leg wires or shock tube, tie at least 2 half hitches on both the 1st and 2nd cartridges. With plastic tape, secure the primer cartridge at the point where the detonator was inserted as well as at each half hitch above that insertion.

Properties*

SDS
#1084

Density (g/cc) Avg	1.20
Relative Weight Strength	1.03
Relative Bulk Strength	1.54
Velocity ^b (m/s)	>7,010
(ft/s)	>23,000
Water Resistance	Excellent
Fume Class	IME1 & NRCan1 ^c
Shelf Life Maximum	1 year (from date of production)

- * Dynosplit C is manufactured for Dyno Nobel by Hallowell Manufacturing by whom all properties and application recommendations were provided.
- ^b Unconfined @ 5°C (41°F). The effective velocity of Dynosplit C acting to develop the presplit shear line is approximately 4,267 m/s (14,000 fps).
- ^c Approved by Natural Resources Canada as Fume Class 1.

Hazardous Shipping Description

Explosive, Blasting, Type E, 1.1D, UN 0241 II



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- **ALWAYS** use detonating cord with a coreload of 5.3 g/m (25 gr/ft) or greater as the downline when priming DYNOSPLIT C with detonating cord. Expose approximately 40 cm (16 in) of the internal detonating cord by slitting the first explosives cartridge at the top of the explosives column and removing the plastic film packaging and the explosives product from around the detonating cord. Attach the internal detonating cord tail directly to the initiating detonating cord downline using a square knot.
- **ALWAYS** use the plastic cable ties provided in each case to splice two lengths of DYNOSPLIT C together. Overlap the ends of the two lengths by 4 inches to be spliced by one full cartridge and use two cable ties to attach the overlapped cartridges side by side. Pull the ties down tight to complete the splice.

Transportation, Storage and Handling

- DYNOSPLIT C must be transported, stored, handled and used in conformity with all applicable federal, state, provincial and local laws and regulations.
- Packaged watergel has a shelf life of one (1) year when stored at temperatures between -18°C and 38° C (0°F and 100°F). Explosive inventory should be rotated. Avoid using new materials before the old. For recommended good practices in transporting, storing, handling and using this product, see the booklet "Prevention of Accidents in the Use of Explosive Materials" packed inside each case and the Safety Library Publications of the Institute of Makers of Explosives.

Packaging

Size		Weight / Length		Length / Case	
mm x 400	in x 16	kg / m	lbs / ft	m / 25 kg case	ft / 55 lb case
22	7/8	0.48	0.32	52	170
32	1 1/4	0.95	0.64	26	86
40	1 1/2	1.49	1.00	16	54
50	2	2.45	1.65	10.2	33

- Listed weights include the internal detonating cord coreload.
- Note: All weights / lengths are approximate.

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