

TECHNICAL DATA SHEET



DYNOSPLIT®

Nitroglycerin Dynamite

Properties

SDS
#1019

	D ^e	D1
Diameter (in)	7/8	7/8
Density (g/cc) avg	1.40	0.82
Energy^a (cal/g)	995	930
(cal/cc)	1,440	940
Relative Weight Strength^a	1.13	1.05
Relative Bulk Strength^{a,b}	2.00	1.30
Velocity (m/s)	2,700 ^d	1,875
(ft/s)	8,900 ^d	6,150
Detonation Pressure (Kbars)	26 ^d	7 ^d
Gas Volume^a (moles/kg)	32	38
Water Resistance	Good	Good
Fume Class	IME1 & NRCan1 ^e	**Not for use underground

^a 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.

^b ANFO = 1.00 @ 0.82 g/cc

^d Unconfined @ 22 mm (7/8 in) diameter

^e Dynosplit D is IME1 and is approved by Natural Resources Canada as Fume Class 1.

Hazardous Shipping Description

- Explosive, Blasting, Type A, 1.1D, UN 0081 II



PRODUCT DESCRIPTION

DYNOSPLIT is a specially formulated nitroglycerin dynamite packaged in a rigid 600 mm (24 in) long paper cartridges available in 22 mm (7/8 in) diameter. With a plastic coupler attached to one end, allows easy assembly into a continuous length. DYNOSPLIT is designed for pre-splitting or cushion blasting in surface operations and for smooth wall, contour or trim blasting underground.



APPLICATION RECOMMENDATIONS

- Minimum detonating cord is 5.3 g/m (25 gr/ft).
- Minimum detonator is No. 8 strength.
- Minimum temperature is -40°C (-40°F).
- Linear charge weight:
 - D = 22 mm (7/8 in) diameter = 0.57 kg/m (0.38 lbs/ft)
 - D1 = 22 mm (7/8 in) diameter = 0.42 kg/m (0.28 lbs/ft)
- ALWAYS** trace columns over 2 m (6 ft) long with detonating cord securely attached to each cartridge.
- ALWAYS** decouple the explosive charge when presplitting; that is, select larger borehole diameters to reduce borehole pressure. In surface applications, always stem to minimize air blast and plug the borehole above the explosive column to prevent stemming from filling the air/water space. In underground drifting applications, plug the borehole after the explosive column to prevent the explosive column from being ejected out of the borehole during detonation of the drift round.

Product Disclaimer: Please see reverse side.

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Properties Cont.

Decoupled Borehole Pressure (psi)

Product	Borehole Diameter (in)				
	1 7/8	2 1/2	2 3/4	3	3 1/2
D 7/8 ^a	27,600	13,064	10,196	8,132	5,447
D 7/8 ^b	--	72,732	56,768	45,275	30,325
D1 7/8 ^a	9,576	4,533	2,821	2,821	1,890
D1 7/8 ^b	--	52,849	32,897	32,897	22,034

Diameter x Length		Linear Charge Weight		Qty / Case	Net Explosive Weight*	
mm	in	kg/m	lbs/ft		kg	lbs
D 22 x 600	7/8 x 24	0.54	0.36	60	19.6	43.2
D1 22 x 600	7/8 x 24	0.43	0.29	60	15.8	34.9

^a DYNOSPLIT alone.

^b DYNOSPLIT with detonating cord trace along its length.

*Add two pounds for Gross Case Weight

- Diameter as labeled is nominal inside diameter.
- Actual outside diameter is 23 mm (0.90) for 22 mm (7/8 in).
- Note: All weights are approximate

Case Dimensions

67 x 35 x 12 cm

26 1/2 x 13 3/4 x 4 3/4 in

TRANSPORTATION, STORAGE AND HANDLING

- DYNOSPLIT must be transported, stored, handled and used in conformity with all applicable federal, state, provincial and local laws and regulations.
- For maximum shelf-life, dynamite must be stored in cool, dry and well-ventilated magazines. Dynamite inventory should always be rotated by using the oldest materials first. 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.

ADDITIONAL INFORMATION – Visit dynonobel.com for Brochures and Case Studies related to this product.

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