

D-GEL™ 1000

Technical Information



Desensitized Extra Gelatin Nitroglycerin Dynamite



Product Description

D-GEL 1000 is a desensitized, nitroglycerin-based dynamite formulated to reduce sensitivity to sympathetic detonation (hole-to-hole propagation). This dynamite has superior water resistance and is an excellent choice for use in ditching, site preparation, submarine blasting and any operation where control is critical. D-GEL 1000 is packaged in easy-to-load spiral tubes or in convolute shells which are available with the Tamptite® feature. This feature allows the cartridge to expand easily when tamped to increase explosive to rock coupling and pounds of explosive per foot of borehole.

Application Recommendations

- Minimum diameter is 32 mm (1 ¼ in).
- Minimum detonator is No. 8 strength.
- Storage at elevated temperatures and/or high humidity for 1 to 6 months can reduce the performance of D-GEL 1000 dynamite depending on the diameter. Consult your Dyno Nobel representative for specific recommendations.

Properties

MSDS
#1019

Density (g/cc) Avg	1.36
Energy^a (cal/g)	1,045
(cal/cc)	1,425
Relative Weight Strength^a	1.19
Relative Bulk Strength^{a,b}	1.98
Velocity^c (m/s)	5,150
(ft/s)	16,900
Detonation Pressure^c (Kbars)	90
Gas Volume^a (moles/kg)	34
Water Resistance	Excellent
Fume Class	IME1 & NRCan 1 ^d

^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

^c Unconfined @ 32 mm (1¼ in) diameter

^d Approved by Natural Resources Canada as Fume Class 1 in valeron chub package in all diameters greater than 50 mm (2 in) and **only** in diameters greater than 125 mm (5 in) in shot bags.

Hazardous Shipping Description

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



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Transportation, Storage and Handling

- D-GEL 1000 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.

Diameter x Length		Case Type	Qty / Case	Nominal Case Weight	
mm	in			kg	lbs
32 x 200	1 1/4 x 8	DA	88	19	42
40 x 400	1 1/2 x 16	DA	30	19	41
50 x 400	2 x 16	DB	17	20	43
65 x 400	2 1/2 x 16	DA	10	18	39
75 x 400	3 x 16	DE	8	20	44

** Available upon request.

- D-GEL 1000 is available in a wide variety of sizes. Custom sizes are subject to surcharge and may require longer than usual lead times.
- Note: All weights are approximate.
- Check with your Dyno Nobel representative should you have any questions.

Case Dimensions

DA	45 x 34 x 17 cm	17 ³ / ₄ x 13 ³ / ₈ x 6 ³ / ₈ in
DB	45 x 34 x 15 cm	17 ⁷ / ₈ x 13 ³ / ₈ x 5 ⁷ / ₈ in
DE	45 x 34 x 17 cm	17 ⁵ / ₈ x 13 ⁵ / ₁₆ x 6 ³ / ₄ in

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