

TECHNICAL DATA SHEET



UNIGEL®

Semi-Gelatin Nitroglycerin Dynamite

Properties

SDS
#1019

Density (g/cc) Avg	1.30
Energy ^a cal/g (cal/cc)	955 (1,240)
Relative Weight Strength ^b	1.09
Relative Bulk Strength ^b	1.72
Velocity ^c m/sec (ft/sec)	4,300 (14,100)
Detonation Pressure ^c (Kbars)	60
Gas Volume ^a (moles/kg)	37
Water Resistance	Good
Fume Class	IME1 & NRCan1 ^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.

Hazardous Shipping Description

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



PRODUCT DESCRIPTION

UNIGEL is a semi-gelatin dynamite designed to satisfy the vast majority of explosive applications in soft to medium rock types. It is particularly suited for application in horizontally bedded, laminated and/or fractured formations and where water conditions are not excessive. In addition to use as the main charge in the borehole, UNIGEL is also an excellent primer for ANFO.

APPLICATION RECOMMENDATIONS

- UNIGEL is an excellent primer for Dynamix (ANFO), Dynamix-WR (WR ANFO) or other detonator sensitive packaged product and can be used as a secondary primer in hard seams or at the top of the explosive column.
- Minimum diameter is 25 mm (1 in).
- Minimum detonator is No. 8 strength.
- Depending on storage conditions, dynamites may become difficult to punch. This does not affect performance. Use softer cartridges to make up primers.
- Dynamites are susceptible to sympathetic detonation when applied in very wet conditions where boreholes are closely spaced and/or where geological conditions promote this effect. Consult your Dyno Nobel representative for recommendations where these conditions exist.



Product Disclaimer: Please see reverse side.

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Packaging

Diameter x Length		Qty / Case	Case Type	Net Explosive Weight*	
mm	in			kg	lbs
32 x 400	1¼ x 16	44	2G	17	38
32 x 600	1¼ x 24	30	5G	17	38
38 x 400	1½ x 16	30	2G	16	36
38 x 600	1½ x 24	25	5G	20	45
50 x 400	2 x 16	18	2G	19	42
65 x 400	2½ x 16	10	2G	17	37
75 x 400	3 x 16	8	2G	19	41

- UNIGEL 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.
- *Add two pounds for Gross Case Weight

Case Dimensions

2G	45 x 34 x 16 cm	17¾ x 13¾ x 6¾ in
5G	67 x 35 x 12 cm	26½ x 13¾ x 4¾ in

TRANSPORTATION, STORAGE AND HANDLING

- UNIGEL 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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