

DYNOMAX™ PRO

Technical
Information



Extra Gelatin Nitroglycerin Dynamite



Product Description

DYNOMAX PRO is desensitized extra gelatin dynamite designed to satisfy the majority of explosive application requirements. DYNOMAX PRO is formulated to consistently deliver high detonation velocity and excellent water resistance while reducing cartridge to cartridge gap sensitivity and hole-to-hole propagation problems. DYNOMAX PRO is recommended for bottom loading and as the main explosive charge where high density and energy is required. DYNOMAX PRO is recommended for use as booster, bottom load or floor control solution.

Application Recommendations

- DYNOMAX PRO 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 32 mm (1¼ in).
- Minimum detonator is No. 8 strength.
- DYNOMAX PRO has been formulated to reduce susceptibility 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 product recommendations where these conditions exist.
- Storage at elevated temperatures and/or high humidity for 12-18 months can reduce the performance of DYNOMAX PRO depending on the diameter. Consult your Dyno Nobel representative for specific recommendations.

Properties

SDS
#1019

Density (g/cc) Avg	1.45
Energy^a (cal/g)	1,055
(cal/cc)	1,510
Relative Weight Strength^a	1.20
Relative Bulk Strength^{a,b}	2.10
Velocity^c (m/s)	6,000
(ft/s)	19,700
Detonation Pressure^c (Kbars)	130
Gas Volume^a (moles/kg)	32
Water Resistance	Excellent
Fume Class^d	IME1

^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 @ 50 mm (2 in) diameter.

^d IME Fume Class 1 in convolute paper shell only. Not Fume Class 1 in paper tube shell. Natural Resources Canada Fume Class approvals pending.

Hazardous Shipping Description

Explosive, Blasting, Type A 1.1D UN 0081 II



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Transportation, Storage and Handling

- For maximum shelf-life, DYNOMAX PRO dynamite must be stored in cool, dry and well-ventilated magazines. Explosive 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.
- DYNOMAX PRO must be transported, stored, handled and used in conformity with all applicable federal, state, provincial and local laws and regulations.

Packaging

Diameter x Length		Qty / Case	Case Type	Nominal Case Weight	
mm	in			kg	lbs
32 x 200	1 1/4 x 8	88	DA	20	44
32 x 400	1 1/4 x 16	44	DA	20	44
40 x 200	1 1/2 x 8	60	DA	20	44
50 x 200	2 x 8	34	DB	20	43
50 x 400 ^a	2 x 16 ^a	17	DB	20	43
65 x 400 ^a	2 1/2 x 16 ^a	10	DB	19	41
75 x 200	3 x 8 ^a	16	DE	20	44
75 x 400 ^a	3 x 16 ^a	8	DE	20	44

^a Available in spiral tube shell with tapered end.

• Note: All weights are approximate.

**Available upon request. Check with your Dyno Nobel representative should you have any questions.

- Product density is 1.40 g/cc for package diameters less than 50mm (2 in). Use cartridge count to determine actual explosive charge weight.
- DYNOMAX PRO is available in a wide variety of sizes. Custom sizes are subject to surcharge and may require longer than usual lead times.

Case Dimensions

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

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