

Extra Gelatin

Technical Information



Extra Gelatin Nitroglycerin Dynamite



Product Description

EXTRA GELATIN dynamite is available in two strengths (40 and 75) and designed to satisfy the vast majority of explosive applications in even the hardest rock types. Dyno Nobel EXTRA GELATIN dynamites are formulated to consistently deliver high detonation velocity and excellent water resistance. EXTRA GELATIN dynamite can be used as the main explosive charge where high density and energy is required or as a primer for ANFO.

Application Recommendations

- Minimum diameter is 22 mm (7/8 in).
- Minimum detonator is No. 8 strength.
- 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.
- Storage at elevated temperatures and/or high humidity for 1 to 6 months can reduce the performance of EXTRA GELATIN dynamite depending on the diameter. Consult your Dyno Nobel representative for specific recommendations.

Properties

MSDS
#1019

	<u>40</u>	<u>75</u>
Density (g/cc) Avg	1.54	1.37
Energy ^a (cal/g)	1,080	1,080
(cal/cc)	1,665	1,480
Relative Weight Strength ^a	1.23	1.23
Relative Bulk Strength ^{a,b}	2.31	2.06
Velocity ^c (m/s)	4,700	5,400
(ft/s)	15,400	17,800
Detonation Pressure ^c (Kbars)	85	101
Gas Volume ^a (moles/kg)	23	35
Water Resistance	Very Good	Very 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 @ 50 mm (2 in) diameter

^d Approved by Natural Resources Canada as Fume Class 1.

Hazardous Shipping Description

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



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Transportation, Storage and Handling

- EXTRA GELATIN 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		Qty / Case	Nominal Case Weight		Qty / Case	Nominal Case Weight		Case Type (both)
mm	in		kg	lbs		kg	lbs	
50 x 200	2 x 8	34	20	44	34	19	41	DB
50 x 400	2 x 16	17	20	44	17	19	41	DB
60 x 400	2 1/4 x 16	14	**	**	14	**	**	**
65 x 400	2 1/2 x 16	10	20	44	10	18	40	DB
70 x 400	2 3/4 x 16	9	**	**	9	**	**	**
75 x 400	3 x 16	8	20	44	8	17	37	DE

40 Extra Gelatin

75 Extra Gelatin

**Available upon request.

- Extra Gelatin 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 local Dyno Nobel representative should you have any questions.

Case Dimensions

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 ⁷ / ₈ x 13 ⁵ / ₁₆ x 6 ³ / ₄ in

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