

TECHNICAL DATA SHEET



DYNO[®] Xtra

Small Diameter Detonator Sensitive Emulsion

Properties

SDS
#1030

	Chub/Plastic	Paper
Density (g/cc) Avg	1.17	1.11
Energy ^a cal/g (cal/cc)	825 (965)	800 (890)
Relative Weight Strength ^b	0.94	0.91
Relative Bulk Strength ^b	1.34	1.24
Velocity ^c m/sec (ft/sec)	4,900 (16,100)	4,900 (16,100)
Detonation Pressure ^c (Kbars)	70	67
Gas Volume ^a (moles/kg)	37	37
Water Resistance	Excellent	Excellent
Fume Class ^d	IME1 & NRCan 1	IME1 & NRCan 1
Maximum Water Depth	30 m (100 ft)	30 m (100 ft)

^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 IME Fume Class 1 and NRCan Fume Class 1 in both packagings

Hazardous Shipping Description

Explosive, Blasting, Type E, 1.1D, UN 0241, II



PRODUCT DESCRIPTION

DYNO XTRA is a detonator sensitive, specialty packaged emulsion explosive engineered to meet the demands of shaft sinking and UG civil projects. It is recommended for use in super saturated conditions, where blast holes are closely spaced, and dynamic shock is a concern. DYNO XTRA will retain its performance when the package is slit and exposed to water for extended periods of time.

APPLICATION RECOMMENDATIONS

- Package diameter and type affect product density. Use cartridge count to determine actual explosive charge weight.
- At internal product temperatures higher than -18°C (0°F), ALWAYS use a Dyno Nobel high strength detonator or equivalent. At internal product temperatures below -18°C (0°F) and higher than -26°C (-15°F), ALWAYS use an 10 gram or larger cast booster. For internal product temperatures below -26°C (-15°F), consult your Dyno Nobel representative for the recommended cast booster size.
- Use with detonating cord is not recommended.
- ALWAYS ensure continuous column loading of cartridges. Where column separation is likely, use additional primers.



Product Disclaimer: Please see reverse side.

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TRANSPORTATION, STORAGE AND HANDLING

- DYNO XTRA must be transported, stored, handled and used in conformity with all applicable federal, state, provincial and local laws and regulations.
- Packaged emulsions have a shelf life of one (1) year when stored at temperatures between -18° C and 38° C (0° F and 100° F). Explosive inventory should be rotated. Avoid using new materials before the old. 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.

Properties Cont.

Product Code	Diameter x Length		Packaging Type		Nominal Case Qty.	Case Weight		Net Explosive Weight	
	mm	in	film	paper		kg	lbs	kg	lbs
QG44012516	32 x 400	1¼ x 16	PMP		54	19.6	43.1	18.6	41.0
QG44015016	38 x 400	1½ x 16	PMP		37	19.1	42.1	18.1	40.0
QG44020016	50 x 400	2 x 16	VALERON		18	18.2	40.1	17.2	38.0
IL44112516N	32 x 400	1¼ x 16		CSTT	57	19.1	42.1	18.1	40.0
IL44115016N	38 x 400	1½ x 16		CSTT	38	19.1	42.1	18.1	40.0
IL44220016N	50 x 400	2 x 16		TS	21	19.1	42.1	18.1	40.0

Package diameter and type affect product density. Use cartridge count to determine actual explosive charge weight. All weights are approximate

DYNO XTRA is available in a wide variety of sizes. Custom sizes are subject to surcharge and may require longer than usual lead times

Check with your Dyno Nobel representative should you have any questions

Case Dimensions

44 x 35 x 20 cm 17½ x 13⅞ x 7⅞ in

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

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