TECHNICAL DATA SHEET

PACKAGED EXPLOSIVES

DYNOSPLIT® AP

Small Diameter Detonator Sensitive Continuous Packaged Emulsion

PROPERTIES	SDS #1030
Density (g/cc) Avg	1.08
Energy[a] (cal/g)	775
Energy[a] (cal/cc)	840
Relative Weight Strength[a]	0.88
Relative Bulk Strength[a,b]	1.16
Velocity[c] (m/s)	4,700
Velocity[c] (ft/sec)	15,400
Detonation Pressure[c] (Kbars)	60
Gas Volume[a] **(moles/kg)**	41
Fume Class[d]	IME1 & NRCan1
Maximum Water Depth	30m (100ft)
Water Resistance	Excellent

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 ($1^{1/4}$ in) diameter

d DYNOSPLIT AP is IME Fume Class 1

HAZARDOUS SHIPPING DESCRIPTION

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

PRODUCT DESCRIPTION

DYNOSPLIT AP is a detonator sensitive, continuous, packaged emulsion explosive product that is specifically designed for underground perimeter control applications such as presplitting and trim blasting. DYNOSPLIT AP does not utilize either an internal or attached external detonating cord trace making it an all-purpose, water-resistant, cost-effective emulsion product for this application. The continuous explosive column provides consistent borehole pressure along the entire loaded borehole zone resulting in a uniform tensile shearing effect. DYNOSPLIT AP is one continuous single cartridge and can be ordered in a standard length so that cutting is not needed, making this product very easy to handle.

APPLICATION RECOMMENDATIONS

- DYNOSPLIT AP is recommended for use with either electric, electronic or nonelectric standard strength detonators or detonating cord.
- When initiating with detonating cord, **ALWAYS** use 5.3 g/m (25 gr/ft) detonating cord when internal product temperatures are higher than 0° C (32°F) or 8.5 g/m (40 gr/ft) detonating cord when internal product temperatures are -20° C to 0° C (-4° to 32° F)
- DYNOSPLIT AP will perform in temperatures from -20° to +50° C (-4° to 122° F). At internal product temperatures higher than -18° C (0° F), **ALWAYS** use a Dyno Nobel standard strength detonator or equivalent. At internal product temperatures below -18° C (0° F) and higher than -23° C (-10° F), **ALWAYS** use a 10 gram or larger cast booster. For internal product temperatures below -23° C (-10° F), consult your Dyno Nobel representative for the recommended cast booster size.
- Emulsion explosives are susceptible to “dynamic shock” and may detonate at low order or fail completely when applied in very wet conditions where explosive charges or decks are closely spaced and/or where geological conditions promote this effect. Consult your Dyno Nobel representative for alternate product recommendations when these conditions exist.

Product Disclaimer: Please see reverse side.

DYNO NOBEL

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TRANSPORTATION, STORAGE AND HANDLING

- DYNOSPLIT AP 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.

DIMENSIONS

X	127 x 27 x 16 cm	49.875 x 10.750 x 6.19 in
Y	88 x 28 x 16 cm	34.750 x 10.875 x 6.25 in

PROPERTIES (continued)

Material Number	Diameter		Weight		Length / Cartridge		Cartridge Count per Case	Net Explosive Weight*		Case
--	mm	in	kg / m	lbs / ft	cm	in	--	kg	lb	--
QG41610144	25	1	0.51	0.34	366	144	8	15	33	Y
QG41610168	25	1	0.52	0.35	427	168	7	15	34	Y
QG41610189	25	1	0.49	0.33	480	189	7	16	36	X
QG41613120	32	1 1/4	0.84	0.56	305	120	7	18	39	X
QG41613168	32	1 1/4	0.85	0.57	427	168	5	18	40	X
QG41615120	38	1 1/2	1.25	0.84	305	120	5	19	42	X
QG41615144	38	1 1/2	1.25	0.84	366	144	4	18	40	X
QG41615180	38	1 1/2	1.26	0.84	457	180	3	17	38	X

Note: All weights are approximate.

*Add four pounds for Gross Case Weight

- Package diameter and type affect product density. Use cartridge count to determine actual explosive charge weight.
- DYNOSPLIT AP 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.

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

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