DYNOSPLIT® AP

Technical Information

Small Diameter Detonator Sensitive Continuous Packaged Emulsion

Product Description

DYNOSPLIT AP is a detonator sensitive, continuous, packaged emulsion explosive product that is specifically designed for underground perimeter control applications such as prespliting 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 -20º C to 0° C (-4° to 32° F)
- DYNOSPLIT AP will perform in temperatures from -20º to +50º C (-4º to 122º F). At internal product temperatures higher than -18º C (0º F), **ALWAYS** use a Dyno Nobel standard strength detonator or equivalent. At internal product temperatures below -18º C (0º F) and higher than -23º C (-10º F), **ALWAYS** use a 10 gram or larger cast booster. For internal product temperatures below -23º C (-10º F), consult your Dyno Nobel representative for the recommended cast booster size.

Properties

SDS #1030

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

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 DYNOSPLIT AP is IME Fume Class 1.

Hazardous Shipping Description

Explosive, Blasting, Type E 1.1D UN 0241 II

See Product Disclaimer on page 2

DYNOSPLIT® AP

Technical Information

Application Recommendations (continued)

- 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.

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 -18ºC and 38º C (0ºF and 100ºF). 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.

Packaging

Material Number	Diameter		Weight		Length / Cartridge		Cartridge Count per Case	Case Weight		Case
	mm	in	kg/m	lbs/ft	cm	in		kg	lb	
QG41610144	25	1	.51	.34	366	144	8	15	33	Y
QG41610168	25	1	.52	.35	427	168	7	15	34	Y
QG41610189	25	1	.49	.33	480	189	7	16	36	X
QG41613120	32	1 1/4	.84	.56	305	120	7	18	39	X
QG41613168	32	1 1/4	.85	.57	427	168	5	18	40	X
QG41615120	38	1 1/2	1.25	.84	305	120	5	19	42	X
QG41615144	38	1 1/2	1.25	.84	366	144	4	18	40	X
QG41615180	38	1 1/2	1.26	.84	457	180	3	17	38	X

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

DYNOSPLIT AP are 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

X	127 x 27 x 16 cm	49.875 x 10.75 x 6.19 in
Y	88 x 28 x 16 cm	34.75 x 10.875 x 6.25 in

Dyno Nobel Inc.
2795 East Cottonwood Parkway, Suite 500, Salt Lake City, Utah 84121 USA
Phone 800-732-7534 Fax 801-328-6452 Web www.dynonobel.com