

DYNOSPLIT® EX

Technical
Information



Small Diameter Detonator Sensitive Continuous Packaged Emulsion



Product Description

DYNOSPLIT EX is a detonator sensitive, perchlorate free, packaged emulsion explosive product. It is produced in a continuous cartridge form specifically for both surface and underground perimeter control applications such as presplit and trim blasting. DYNOSPLIT EX is crimped every 400 mm (16 in) and externally traced the entire length with 10 g/m (50 gr/ft) detonating cord. The continuous explosive column provides consistent blast hole pressure along the entire loaded blast hole zone resulting in a uniform tensile shearing effect. DYNOSPLIT EX can be cut to fit the desired load length or spliced to increase the load length.

Application Recommendations

- DYNOSPLIT EX is recommended for use with minimum #8 strength electric, electronic or nonelectric detonators or the appropriate core load detonating cord.
- When initiating with a detonator, **ALWAYS** attach the detonator directly to the external, trace detonating cord on the DYNOSPLIT EX packaged emulsion.
- DYNOSPLIT EX will perform in temperatures from -20° to +50°C (-4° to 122°F).
- When internal product temperatures are below -20°C (-4°F), **ALWAYS** allow adequate product warm-up time. Refer to the Warm-Up Time Chart to determine adequate blast hole residence time after loading.

Properties

SDS
#1157

Density (g/cc) Avg	1.10–1.12
Energy ^a (cal/g) (cal/cc)	775 860
Relative Weight Strength ^a	0.88
Relative Bulk Strength ^{a,b}	1.19
Velocity ^c (m/s) (ft/s)	4,700 15,400
Detonation Pressure ^c (kbars)	65
Gas Volume ^a (moles/kg)	38
Water Resistance	Excellent
Fume Class	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; emulsion only. Actual VOD of DYNOSPLIT EX is dependent on VOD of detonating cord (~7,000 m/sec).

Hazardous Shipping Description

Explosive, Blasting, Type E 1.1D UN 0241 II



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Transportation, Storage and Handling

- DYNOSPLIT EX 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. Use old materials before new materials.
- 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.”

Warm-Up Time Chart

Blast Hole Residence Time (Hours at 7°C / 45°F)

Internal Product Temperature Before Loading		25–32 mm (1–1¼ in) Diameter		38–50 mm (1½–2 in) Diameter	
°C	°F	Wet	Dry	Wet	Dry
-30	-22	1.0	2.0	2.0	4.0
-40	-40	2.0	5.0	4.0	8.0

Packaging

SAP Mat. #	SAP Description	Size		Weight / Length		Chubs per Case	Length		Case Weight	
		mm x 400	in x 16	kg/m	lb/ft		m	ft	kg	lb
QG43125037	DYNOSPLIT EX 25mm x 36.5m / 1.0 x 120ft	25	1	0.49	0.33	84	36.5	120	16.8	37.0
QG43132026	DYNOSPLIT EX 32mm x 26m / 1.25 x 86ft	32	1¼	0.83	0.56	60	26.1	86	20.4	45.0
QG43138016	DYNOSPLIT EX 38mm x 16m / 1.5 x 51ft	38	1½	1.21	0.81	36	15.7	51	17.6	39.0
QG43150009	DYNOSPLIT EX 50mm x 8.7m / 2.0 x 28.5ft	50	2	2.37	1.59	20	8.7	28.5	19.3	42.4

Note: All weights are approximate

Case and Pallet Information

DYNOSPLIT EX Size	Case Dimensions		Cases per Pallet	Pallet Dimension	
	cm	in		cm	in
1 in, 1½ in, & 2 in	44.5 x 36.3 x 20.3	17.5 x 14.3 x 8	42	91 x 109	36 x 43
1¼ in	42.5 x 32.4 x 24.1	16.7 x 12.7 x 9.5	36	91 x 109	36 x 43

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