

Osx™ 5 Magnagel™

Packaged, Detonator Sensitive Emulsion Explosive

Description

Osx™ 5 Magnagel™ packaged, detonator sensitive emulsion explosive, is a premium formulation made specifically for seismic exploration. This product is packaged in rigid plastic shells to withstand the toughest loading situations. Osx™ 5 Magnagel™ is available in three Fast-Lok™ sizes and two rigid plastic shell sizes.

Key Benefits

Osx™ 5 Magnagel™ emulsion explosive provides:

- Consistent and reliable shooting generating good signal strengths in varying conditions encountered in geophysical exploration.
- Will shoot reliably after 30 days at a depth of 80 m (262 ft)
- Free of nitroglycerin - no headaches, low fumes
- Extremely water resistant, good for long sleep time



Technical properties

VOD*	18,045 ft / sec (5500 m/s)
Gas generation*	953 l/kg
Energy*	3.55 MJ/kg
Detonating Pressure*	109 Kbar
Density	1.18 g/cc nominal
Hazardous Shipping Description	Explosive, Blasting, Type E 1.1D UN 0241 Packaging Group II

*Gas generation, VOD, detonating pressure and energy values are calculated using the IDeX™ computer code owned by Orica for the exclusive use of its companies. Energy values are based on a cut-off pressure of 100 MPa. Other computer codes may give different values

Packaging

Osx™ 5 Magnagel™ is packaged in rigid plastic shells

Standard Sizes

Product Type (lbs. / kg)	Cartridge Size	Quantity per case	Case Size cm / inches
Osx™ 5 Magnagel™ 20 Fast-Lok™ (4.4 / 2.0)	60 x 730 mm (2 $\frac{3}{8}$ x 28 $\frac{3}{4}$ in.)	10	76 x 32 x 13 29 $\frac{7}{8}$ x 12 $\frac{5}{8}$ x 5 $\frac{1}{4}$
Osx™ 5 Magnagel™ 10 Fast-Lok™ (2.2 / 1.0)	60 x 420 mm (2 $\frac{3}{8}$ x 16 $\frac{1}{2}$ in.)	20	52 x 33 x 26.5 20 $\frac{1}{2}$ x 13 x 10 $\frac{5}{8}$
Osx™ 5 Magnagel™ 5 Fast-Lok™ (1.1 / 0.5)	60 x 279 mm (2 $\frac{3}{8}$ x 11 in.)	40	58 x 32 x 26.5 22 $\frac{7}{8}$ x 12 $\frac{5}{8}$ x 10 $\frac{5}{8}$
Osx™ 5 Magnagel™ 250 Plastic (0.55 / 0.25)	32 x 292 mm (1 $\frac{1}{4}$ x 11 $\frac{1}{2}$ in.)	66	44 x 32 x 25.5 17 $\frac{1}{4}$ x 12 $\frac{5}{8}$ x 10
Osx™ 5 Magnagel™ 144 Plastic (0.28 / 0.125)	32 x 152 mm (1 $\frac{1}{4}$ x 6 in.)	132	44 x 32 x 25.5 17 $\frac{1}{4}$ x 12 $\frac{5}{8}$ x 10

Recommendations for use

Priming

Osx™ 5 Magnagel™ is a detonator sensitive explosive and can be reliably initiated with an Electric Seismic™ or Oseis™ Electronic Detonators.

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Loading

Osx™ 5 Magnagel™ can be used in closely spaced patterns if all holes are initiated simultaneously. If Osx™ 5 Magnagel™ must be shot sequentially, minimum distances should be applied:

Charge Size	Separation
1 kg (2.2 lb)	5 m (16.5 ft)
5 kg (11 lb)	6.5 m (21.5 ft)
10 kg (22 lb)	8 m (26.5 ft)

Osx™ 5 Magnagel™ is packaged in rigid cartridges. These molded plastic shells are made of high-density polyethylene, which resists water, oil and abrasion. They will not soften or deteriorate under long exposure to severe conditions.

Shelf Life

Two years from time of manufacture.

Hazardous Materials Shipping Description

Authorized Name: Magnagel™
 Shipping Name: Explosive, Blasting, Type E
 Class Code: 1.1D
 UN No. 0241, PG II

Storage

For best results, store at moderate temperatures and in dry conditions in a well ventilated, approved, high explosives magazine.

For recommended good practices in transporting, storing, handling, and using this product, refer to the "Always and Never" booklet packed inside each case.

Safety

Osx™ 5 Magnagel™ can be initiated by extremes of shock, friction or mechanical impact. As with all explosives Osx™ 5 Magnagel™ should be handled and stored with care.

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Warning: Carbon monoxide and carbon dioxide may migrate through the ground after detonation of explosives. Consult an Orica representative for specific applications.

For additional information visit our web site at oricaminingservices.com under Seismic Exploration

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