

TECHNICAL DATA SHEET

Osx™ 8 L

Degradable Pentolite Based Explosive

USA and Canada



Description

The Osx™ 8 L series provides the geophysical industry with a high performance explosive coupled with Orica's degradation technology (US Patent Pending). The degradation system is based on synthetic chemical technology that doesn't contain microorganisms. The technology works by selectively breaking down the molecular explosives contained in the product. If a charge is abandoned in application the system will render increased insensitivity to detonation.

The plastic shells provide a means of connecting the charges together via their threaded ends. For initiation two plastic lined detonator tunnels are provided to accommodate Oseis™ Electronic detonators or conventional Electric Seismic™ detonators.

Key Benefits

- The Osx™ 8 L series of explosives:
- Provide a reliable, consistent high-energy source for geophysical exploration generating strong signal strengths in varying conditions encountered in geophysical exploration.

Technical Properties

Average Velocity of Detonation	24,490 ft/s (7464 m/s)
Gas generation*	630 l/kg
Energy*	6.19 MJ/kg
Detonating Pressure*	238
K bar	1.7 g/cc nominal
Hazardous shipping description	Boosters without detonators UN 0042 Packaging Group II

*Gas generation, 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.

- Will shoot reliably in any practical depth encountered in geophysical prospecting
- Are extremely water resistant, good for long sleep time.
- Contribute to managing the potential complications associated with misfires and abandoned charges.

Recommendations for Use

Priming and Initiation

Osx™ 8 L is a detonator sensitive explosive and can be reliably initiated with an Electric Seismic™ or Oseis™ Electronic Detonators.

Osx™ 8 L seismic explosive may be used at temperatures up to 70°C. Seek technical advice from Orica for use at higher temperatures.

Loading

Osx™ 8 L can be loaded into any practical depth in water encountered in geophysical exploration.



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Osx™ 8 L 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

Osx™ 8 L series seismic explosive has a maximum shelf life of 5 years when stored as recommended.

Packaging

Product Type (lbs/kg)	Cartridge Size	Quantity per Case	Case Size	in	
				in	cm
Osx™ 8 L (1.1 / 0.5)	2.25 / 57	30	15.0 x 12.6 x 9.8	38.1	32.0 x 24.9
				38.1	32.0 x 24.9
Osx™ 8 L (2.2 / 1.0)	2.25 / 57	20	15.0 x 12.6 x 9.8	38.1	32.0 x 24.9
				38.1	32.0 x 24.9
Osx™ 8 L (4.4 / 2.0)	2.25 / 57	10	25.5 x 12.7 x 4.7	64.8	32.3 x 11.9
				64.8	32.3 x 11.9
Osx™ 8 L (5.5 / 2.5)	2.25 / 57	8	30.5 x 10.0 x 4.7	77.5	25.4 x 11.9
				77.5	25.4 x 11.9

Storage and Handling

Product Classification

Authorized Name: Osx™ 8 L
Correct Shipping Name: Boosters without detonators
UN No: 0042, PG II
Classification: 1.1D

All regulations pertaining to the handling and use of such explosives apply.

Storage

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

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

Disposal

Disposal of explosive materials can be hazardous. Methods of safe disposal of explosives may vary depending on the user's situation. Please contact an Orica Technical Services Representative for information on safe practices.

Safety

Osx™ 8 L can be initiated by extremes of shock, friction or mechanical impact. As with all explosives, Osx™ 8 L should be handled and stored with care.

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Emergency Telephone Numbers

For chemical emergencies (24 hour) involving transportation, spill, leak, release, fire or accidents:

Canada: Orica Canada emergency response 1-877-561-3636

USA: Chemtrec 1-800- 424-9300

