

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.
- 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.



Seismic



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
Density	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

Packaging

Product Type (lbs. / kg)	Cartridge Size	Quantity Per Case	Case Size (Inches / cm)
Osx™ 8 L (1.1 / 0.5)	2.25 / 57	30	15.0 x 12.6 x 9.8 38.1 x 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 x 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 x 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 x 25.4 x 11.9

Recommendations for use

Priming

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 degrees Celsius. 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.

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.

Hazardous Materials Shipping Description

Authorized name: Osx™ 8 L
Shipping Name: Boosters Without Detonators
Class Code: 1.1D
UN No. 0042, PG II

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.

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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Degradation Technology

Orica has proprietary degradation technology in respect of which patents have been applied for. This technology has been demonstrated to deplete molecular explosive concentration in solutions. This catalytic transformation process relies on the chemical interaction with enzyme containing material, which can only be sustained in the appropriate water based environmental conditions. The presence of these conditions cannot be predicted nor controlled by Orica therefore Orica makes no claim as to the effectiveness or extent of the degradation process.

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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