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.

Recommended 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.

Technical Properties

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

*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.
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.

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

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.

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