**Description**

The Osx™ 8 Z series provides the geophysical industry with a high performance explosive coupled with Orica’s patented degradation technology. The degradation system is based on synthetic chemical technology that doesn’t contain microorganisms. The technology works by selectively breaking down 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 Z 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.

**Technical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity of Detonation*</td>
<td>24,100 ft/s (7340 m/s)</td>
</tr>
<tr>
<td>Gas generation*</td>
<td>658 l/kg</td>
</tr>
<tr>
<td>Energy*</td>
<td>5.95 MJ/kg</td>
</tr>
<tr>
<td>Detonating Pressure*</td>
<td>232 K bar</td>
</tr>
<tr>
<td>Density</td>
<td>1.6 g/cc nominal</td>
</tr>
<tr>
<td>Hazardous Shipping Description</td>
<td>Boosters without Detonators UN 0042 Packaging Group II</td>
</tr>
</tbody>
</table>

*VOD, 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.

- 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 Z is a detonator sensitive explosive and can be reliably initiated with an Electric Seismic™ or Oseis™ Electronic detonators.

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

Osx™ 8 Z is packaged in rigid cartridges. These molded plastic shells are made of high density polyethylene, which resists under long exposure to severe conditions.
TECHNICAL DATA SHEET

Osx™ 8 Z
Degradable Pentolite Explosive
USA and Canada

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

Packaging

<table>
<thead>
<tr>
<th>Product Type (lbs/kg)</th>
<th>Cartridge Size</th>
<th>Quantity per Case</th>
<th>Case Size</th>
<th>cm</th>
<th>in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Osx™ 8 Z (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>
<td></td>
</tr>
<tr>
<td>Osx™ 8 Z (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>
<td></td>
</tr>
<tr>
<td>Osx™ 8 Z (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>
<td></td>
</tr>
<tr>
<td>Osx™ 8 Z (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>
<td></td>
</tr>
</tbody>
</table>

Storage and Handling

Product Classification
Authorized Name: Osx™ 8 Z
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 Z can be initiated by extremes of shock, friction or mechanical impact. As with all explosives, Osx™ 8 Z should be handled and stored with care.

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Tel: +1 303 268 5000
Fax: +1 303 268 5250

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
TECHNICAL DATA SHEET

Osx™ 8 Z
Degradable Pentolite Explosive

USA and Canada

USA: Chemtrec 1-800-424-9300