Description
Cordtex™ Pyrocord is a strong, flexible detonating cord with a nominal core charge of 10 g/m PETN. Cordtex™ Pyrocord was developed for hot material blasting applications in the 55°C to 100°C range. Cordtex™ Pyrocord consists of a continuous core of PETN powder encased by high strength textiles. This is covered by a seamless plastic jacket. It is designed to maintain stability at hole temperatures up to 100°C.

Application
Cordtex™ Pyrocord is suited for use as a surface trunkline, as it will reliably initiate itself through suitable knots and is compatible with Exel™ Millisecond Connectors (MSCs). Refer to the Exel™ MSC Technical Data Sheet for application details.

Cordtex™ Pyrocord downlines will reliably initiate Pentex™ boosters. Consideration must also be given to compatibility of the booster with the in-hole temperature. Refer to the relevant Technical Data Sheet for details. Cordtex™ Pyrocord will not generally initiate primer-sensitive blasting agents, but in some circumstances desensitisation or side-initiation can occur. Consequently the manufacturer or supplier should be consulted for specific recommendations in each situation.

Recommendations For Use
Cordtex™ Pyrocord should only be cut using a single bladed cutter, or a sharp knife on a non-ferrous block. Cordtex™ Pyrocord can be reliably initiated by an Exel™ Lead-In-Line, Exel™ Trunkline Delay or #8 Strength Electric Detonator. The detonators should be firmly attached to the cord, with its base at least 150 mm from a dry cut end and pointing in the desired direction of propagation. When using electric detonators, two detonators are recommended for reliability.

Cordtex™ Pyrocord can be reliably initiated by Cordtex™ AP or detonating cords with greater cord charge when approved connections are used. For extending surface trunklines, cord should be tied together with a “reef” knot (Figure 1). The knot should be 150 mm from each cut end and pulled tight, with the free ends taped back along the cord to ensure positive contact.

For attaching downlines and branchlines to a surface trunkline, connections should be made using a double wrap clove hitch. All connections should be tight and made at right angles, to minimise the chance of “approach”-type cutoff failures.

Technical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Coreload</td>
<td>10 g/m</td>
</tr>
<tr>
<td>Colour</td>
<td>Yellow</td>
</tr>
<tr>
<td>Nominal Tensile Strength</td>
<td>70 kgf</td>
</tr>
<tr>
<td>Nominal Velocity of Detonation</td>
<td>6.5 to 7.0 km/s</td>
</tr>
<tr>
<td>Nominal Diameter</td>
<td>4.6 mm (Average)</td>
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</tbody>
</table>
Cordtex™ Pyrocord Detonating Cord
Australia

Safety
Cordtex™ Pyrocord contains explosive which is relatively insensitive to accidental initiation by shock, friction or mechanical impact under normal conditions of use.

Cordtex™ Pyrocord can detonate if subjected to high temperatures, but remains stable and safe to use below 100°C. Cordtex™ Pyrocord has a heat resistance rating of 8 hours at 100°C. Note: the heat resistance rating is based upon the manufacturer’s laboratory tests, in air, at ambient pressure.

For temperatures between 70°C and 100°C, the exposure time of surface trunklines should never exceed 8 hours. Where Cordtex™ Pyrocord is used in hole, in hot ground, all holes must be temperature logged prior to loading to ensure adequate safety margins. Orica Explosives can assist in the assessment of risk, establish procedures and recommend suitable explosive components. Legislation covering blasting in hot conditions must be followed. Cordtex™ Pyrocord is supplied in Class 1.1D packaging and has UN Number 0065.

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