Description
The Pentex™ DS / DT boosters have a plastic cylindrical shell with central longitudinal tunnel. The top of the booster is tightly closed with a plastic cover with a central hole. On the bottom, around the central hole, the booster has a recess to protect leg wires or shocktube and one or two detonator pockets. Each detonator pocket has a locking device, which secures the detonator inside the pocket.

Application
Pentex™ boosters are designed for safe, reliable and efficient initiation of booster sensitive commercial explosives (bulk emulsion, Anfo, slurries) used in mining, quarrying & construction.

Recommendations for Use
- Use the oldest products in magazines first.
- Store appropriately according to explosives and magazines regulation.
- Not for sites with danger of fire damp or coal dust explosion.

Priming and Initiation
Only detonators with an output strength of a Ref. Det. #3 (minimum base charge of 0.8 g PETN) or higher.

Ground Temperature
The booster operating temperature range is within -35 °C to +55 °C.

Technical Properties

<table>
<thead>
<tr>
<th>Product</th>
<th>Pentex™ DS</th>
<th>Pentex™ DT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal cartridge diameter (mm)</td>
<td>38 ±1.5</td>
<td>44 ±1.5</td>
</tr>
<tr>
<td>Nominal cartridge length (mm)</td>
<td>115 ±1.5</td>
<td>130 ±1.5</td>
</tr>
<tr>
<td>Nominal explosive mass NEQ (g)</td>
<td>150 ±15</td>
<td>250 ±20</td>
</tr>
<tr>
<td>Shell colour</td>
<td>red</td>
<td>red</td>
</tr>
<tr>
<td>Central hole diameter (mm)</td>
<td>11.5 ±0.5</td>
<td>11.5 ±0.5</td>
</tr>
<tr>
<td>Detonator pocket diameter (mm)</td>
<td>8 ±0.5</td>
<td>8 ±0.5</td>
</tr>
<tr>
<td>Detonator pocket depth (mm)</td>
<td>105 ±1.5</td>
<td>105 ±1.5</td>
</tr>
<tr>
<td>Number of detonator pocket</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Density (g/cm³)</td>
<td>1.55</td>
<td>1.55</td>
</tr>
<tr>
<td>Hole Type</td>
<td>Wet and dry</td>
<td>Wet and dry</td>
</tr>
<tr>
<td>Detonation velocity (m/s)</td>
<td>7000</td>
<td>7000</td>
</tr>
<tr>
<td>Impact sensitivity (J)</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Friction sensitivity (N)</td>
<td>360</td>
<td>360</td>
</tr>
<tr>
<td>Water resistance</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
</tbody>
</table>

Packaging
Pentex™ boosters are available in boxes:

<table>
<thead>
<tr>
<th>Product</th>
<th>Gross weight cartridge (g)</th>
<th>Cartridge per box (items)</th>
<th>Net explosive weight (kg)</th>
<th>Net weight box (kg)</th>
<th>Gross weight box (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentex™ DS / DT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Box size: 250 x 310 x 280 mm</td>
<td>150</td>
<td>180</td>
<td>98</td>
<td>14.7</td>
<td>17.85</td>
</tr>
<tr>
<td>250</td>
<td>280</td>
<td>17.5</td>
<td>19.6</td>
<td>20.2</td>
<td></td>
</tr>
<tr>
<td>450</td>
<td>465</td>
<td>40</td>
<td>16.8</td>
<td>18.6</td>
<td>19.2</td>
</tr>
<tr>
<td>Box size: 305 x 125 x 135 mm</td>
<td>450</td>
<td>480</td>
<td>10</td>
<td>4.2</td>
<td>4.56</td>
</tr>
<tr>
<td>900</td>
<td>875</td>
<td>28</td>
<td>23.2</td>
<td>24.5</td>
<td>25.5</td>
</tr>
</tbody>
</table>

Storage and Handling
Product Classification
Authorised Name: Pentex™ DS / DT
Proper Shipping Name: BOOSTER without detonator
UN No.: 0042
Classification: 1.1D

2020-04-14
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Public
Storage
Pentex™ boosters should be stored in a suitably licensed magazine for Class 1.1D explosives.

Pentex™ boosters have a storage life of 5 years in stable, temperate conditions.

Pentex™ boosters are best stored at ambient temperatures of 0 °C to + 30 °C.

Disposal
Disposal of explosive materials can be hazardous. Methods for safe disposal of explosives may vary depending on the user's situation. Please contact a local Orica representative for information on safe practices.

Safety
Pentex™ boosters contain explosives, which can be initiated by intense impact, friction or heat. As with all high explosives Pentex™ boosters should be handled and stored with care.

DO NOT use these boosters with any detonator, which cannot be completely contained within the detonator pocket of the booster. If this is not observed, damage to the detonator may occur during charging which may lead to a premature detonation.

Training
This Technical Data Sheet is for information only. Boosters must only be used by personnel who have been properly trained to use this product.

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Notes:
1. Nominal Density Only.
2. VOD will depend on application including explosive density blasthole diameter and degree of confinement. The VOD range is based on minimum unconfined and calculated ideal.