### 2 in. Sidewinder II HNS, DP, 6.2 Grams Shaped Charge

<table>
<thead>
<tr>
<th>Part No.: 100157018</th>
<th>PROPER SHIPPING NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE Certificate No.: CE0519, ENB/B/040</td>
<td>UN0440, CHARGES, SHAPED, 1.4D, PG II</td>
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<tr>
<td>DOT EX No.: EX1996080028</td>
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</tbody>
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#### Technical Drawing

- Case
- Liner
- Explosive, booster
- Explosive, main
- Glue ring

#### Technical Information

**APPLICATION:**
Shaped charge for oilfield use

**PERFORATING SYSTEM:**
SPECIFICATION (w/ cold drawn steel):
- Diameter: 2.03 inch (51.6 mm) OD
- Collapse rating: 20,000 psi (1,379 bar)
- Tensile rating: 77,000 lbs (34,921 kg)

**EXPLOSIVES:**
- Booster: Pure HNS, 0.3 g
- Main load: Desensitized HNS, 5.9 g
- Density: > 1.5 g/cm³

**TEMPERATURE LIMITS:**
- 525°F / 274°C  1 h
- 475°F / 246°C  24 h
- 460°F / 237°C  100 h

**PERFORMANCE:**
Manufacturing quality control data:
- Hole Diameter: 0.21 in (5.3 mm)
- Penetration: 11.89 in (302.0 mm)

**SHELF LIFE:**
10 years when stored unopened in original packaging. Storage temperature:
- 0°C / 32°F min 54°C / 130°F max

**DISPOSAL:**
Dispose of product not suitable for oilfield use according to applicable laws and regulations.

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**Packing Information**

- Quantity per box: 100 pieces
- Gross weight per box: 13.83 kg (30.5 lb)
- Net weight per box: 9.53 kg (21 lb)
- NEC per box: 0.6200 kg
- Box dim: 45.7 x 30.5 x 12.7 cm
- Package type: Trays with desiccant enclosed by vacuum bag, then placed inside fibreboard box.

Product Designation: HES-APRV-004

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