# 4.625 in. HMX, SH, Zinc Case, 28 Gr Shaped Charge

<table>
<thead>
<tr>
<th>Part No.: 101233690</th>
<th>PROPER SHIPPING NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE Certificate No.: CE0519, ENB/B/036</td>
<td>UN0440, CHARGES, SHAPED, 1.4D, PG II</td>
</tr>
<tr>
<td>DOT EX No.: EX1996080028</td>
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</tbody>
</table>

## Technical Drawing

![Technical Drawing](image)

## Technical Information

**APPLICATION:**
Shaped charge for oilfield use

**PERFORATING SYSTEM SPECIFICATION (w/ cold drawn steel):**
- Diameter: 4.625 inch (117.5 mm) OD
- Collapse rating: 414,000 psi (1,379 bar)
- Tensile rating: 20,000 lbs (187,787 kg)

**EXPLOSIVES:**
- Booster: Pure HMX, 1g
- Main load: Desensitized HMX, 27 g
- Density: > 1.5 g/cm³

**TEMPERATURE LIMITS:**
- 400 F / 204 C 1 h
- 338 F / 170 C 24 h
- 310 F / 154 C 100 h

**PERFORMANCE:**
- Hole Diameter: .95 in (24.13 mm)
- Penetration: 5.48 in (139.2 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.

## Technical Drawing

![Technical Drawing](image)

## Packing Information

<table>
<thead>
<tr>
<th>Quantity per box:</th>
<th>40 pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross weight per box:</td>
<td>8.96 kg (19.75 lb)</td>
</tr>
<tr>
<td>Net weight per box:</td>
<td>7.02 kg (15.48 lb)</td>
</tr>
<tr>
<td>NEC per box:</td>
<td>1.1200 kg</td>
</tr>
<tr>
<td>Box dim:</td>
<td>45.7 x 30.5 x 12.7 cm</td>
</tr>
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</table>

### Paint

Box dim: 18 x 12 x 5 in

Package type: Trays with desiccant enclosed by vacuum bag, then placed inside fibreboard box.

Product Designation: HES-APRV-004

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