# 4" Millennium®, GSC, STD WSHR, RDX, DP Shaped Charge

<table>
<thead>
<tr>
<th>PROPER SHIPPING NAME</th>
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<tbody>
<tr>
<td>UN0440, CHARGES, SHAPED, 1.4D, PG II</td>
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## Technical Drawing

- Diameter: 52.93 mm (2.08 in)
- Height: 52.93 mm (2.08 in)

## Technical Information

### APPLICATION:
Shaped charge for oilfield use

### PERFORATING SYSTEM SPECIFICATION:
- Diameter: 4 inch (117.5 mm) OD
- Collapse rating: 16,000 psi (1,105 bar)
- Tensile rating: 350,000 lbs (158,757 kg)

### EXPLOSIVES:
- Booster: Pure RDX, 1g
- Main load: Desensitized RDX, 18.5 g
- Density: > 1.5 g/cm³

### TEMPERATURE LIMITS:
- 325 F / 162 C for 1 h
- 260 F / 125 C for 24 h
- 225 F / 107 C for 100 h

### PERFORMANCE:
- Manufacturing quality control data:
  - Hole Diameter: .49 in (12.4 mm)
  - Penetration: 27.53 in (699 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.

## Packing Information

- Quantity per box: 50 pieces
- Gross weight per box: 18.05 kg (39.8 lb)
- Net weight per box: 15.88 kg (35 lb)
- NEC per box: 0.9750 kg
- Box dim: 45.7 x 30.5 x 16.5 cm
- Package type: Trays with desiccant enclosed by vacuum bag, then placed inside fibreboard box.

Product Designation: HES-APRV-004

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