# 4.75 in. High Pres, BH, HMX, 21G Shaped Charge

<table>
<thead>
<tr>
<th>Part No.: 101787632</th>
<th>PROPER SHIPPING NAME</th>
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</thead>
<tbody>
<tr>
<td>CE Certificate No.: CE0519, ENB/B/036</td>
<td>UN0440, CHARGES, SHAPED, 1.4D, PG II</td>
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<td>DOT EX No.: EX1996080028</td>
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## Technical Drawing

1. Case
2. Liner
3. Explosive, booster
4. Explosive, main
5. Paint
6. Glue ring

## Technical Information

### APPLICATION:
Shaped charge for oilfield use

### PERFORATING SYSTEM
**SPECIFICATION (w/ cold drawn steel):**
- Diameter: 4.750 inch (120.65 mm) OD
- Collapse rating: 30,000 psi (2,068 bar)
- Tensile rating: 433,700 lbs (196,723 kg)

### EXPLOSIVES:
- Booster: Pure HMX, 1g
- Main load: Desensitized HMX, 20 g
  - Density: > 1.5 g/cm³

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

### PERFORMANCE:
- Registered API 19B Section 1 data:
  - Hole Diameter: .71 in (18.03 mm)
  - Penetration: 5.90 in (149.86 mm)
- Manufacturing quality control data:
  - Hole Diameter: .74 in (18.80 mm)
  - Penetration: 6.00 in (152.40 mm)

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

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

Jet Research Center, a division of Halliburton Energy Services, Inc.
8432 South I-35W
Alvarado, Texas 76009-9775
USA

Tel.: +1 817.761.2000