# 4-5/8 Maxforce HMX Shaped Charge

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## Technical Information

**APPLICATION:**
Shaped charge for oilfield use

**PERFORATING SYSTEM**

**SPECIFICATION (w/ cold drawn steel):**
- Diameter: 4-5/8 inch (117.48 mm) OD
- Collapse rating: 18,000 psi (1,241 bar)
- Tensile rating: 414,000 lb (187,787 kg)

**EXPLOSIVES:**
- Booster: Pure HMX, 1g
- Main load: Desensitized HMX, 31 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:**

Registered API 19B Section 1 data:
- Hole Diameter: 0.42 in (10.7 mm)
- Penetration: 38.3 in (973 mm)

Manufacturing quality control data:
- Hole Diameter: 0.48 in (12.2 mm)
- Penetration: 36.3 in (922 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: 8.71 kg
- Net weight per box: 6.53 kg
- NEC per box: 1.60 kg
- Box dim, cm: 44.93 x 29.21 x 17.78
- Box dim, inches: 17.69 x 11.50 x 7.00
- Package type: Trays with desiccant enclosed by vacuum bag, then placed inside fibreboard box.
- Product Designation: HES-APRV-004

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