# Technical Information

## APPLICATION:
Shaped charge for oilfield use

## PERFORATING SYSTEM SPECIFICATION (w/ cold drawn steel):
- Diameter: 2.75 inch (69.9 mm) OD
- Collapse rating: 25,000 psi (1,723 bar)
- Tensile rating: 134,000 lbs (60,781 kg)

## EXPLOSIVES:
- Booster: Pure HMX, 1g
- Main load: Desensitized HMX, 13.7 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: .65 in (16 mm)
  - Penetration: 4.2 in (106.7 mm)
- Manufacturing quality control data:
  - Hole Diameter: .68 in (172.7 mm)
  - Penetration: 5.72 in (145.29 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: 9.53 kg (21 lb)
- Net weight per box: 7.94 kg (17.5 lb)
- NEC per box: 0.7350 kg
- Box dim: 45.7 x 30.5 x 12.7 cm
  - 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