## 230 DOMINATOR® HNS, 23 G Shaped Charge

<table>
<thead>
<tr>
<th>Part No.: 102432985</th>
<th>PROPER SHIPPING NAME</th>
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</thead>
<tbody>
<tr>
<td>CE Certificate No.: CE0519, ENB/B/040</td>
<td>UN0440, CHARGES, SHAPED, 1.4D, PG II</td>
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<tr>
<td>DOT EX No.: EX2012020752</td>
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</tbody>
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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

**EXPLOSIVES:**
- Booster: HNS w/ binder, .2g
- Main load: Desensitized HNS, 22.8 g
  - Density: > 1.5 g/cm³

**TEMPERATURE LIMITS:**
- 500 F / 260 C 1 h
- 475 F / 246 C 24 h
- 400 F / 237 C 100 h

**PERFORMANCE:**
- Manufacturing quality control data:
  - Hole Diameter: 0.28 in (7.11 mm)
  - Penetration: 10.1 in (256.54 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:** 14.2 kg (31.2 lb)
- **Net weight per box:** 11.8 kg (25.9 lb)
- **NEC per box:** 1.1500 kg
- **Box dim:** 45.7 x 30.5 x 16.5 cm
  - 18 x 12 x 6.5 in
- **Package type:** Trays with desiccant enclosed by vacuum bag, then placed inside fibreboard box.

**Product Designation:** DP-HNS-023