



LEADERS IN CORROSION PREVENTION AND SEALING TECHNOLOGY

# TECHNICAL DATA SHEET

OVER 130 YEARS SERVICE TO INDUSTRY



FM 01548 | EMS 583748

## Densopol 80HT

Tough, cold-applied laminate tape

### Composition

Densopol 80HT is comprised of synthetic fibre fabric impregnated and coated with polymer modified bitumen compound laminated to thick PVC sheeting. The compound surface is protected by a plastic film interleaving which is discarded during application.

### Uses

Densopol 80HT is used for the protection of buried or sub-marine pipes, welded joints, bends and fittings. The combination of PVC backing and fabric reinforced polymer bitumen compound makes it extremely resistant to damage by sharp objects e.g. poor backfill. It is suitable for application by hand or machine on medium to large diameter pipes.

Service Temperature: -10°C to +60°C

### Characteristics

Densopol 80HT is:

- Suitable for use on pipelines,
- Resistant to cathodic disbondment, and
- Resistant to acid, alkali and salts.

### Surface Preparation

see *Instructions for Use for additional detail*

Surface Preparation: Blast clean to Sa2, Sa 2 ½ or hand tool clean to St3

### Primer

Denso Primer D

### Application

see *Instructions for Use for additional detail*

Refer to leaflet 296 enclosed in each carton

Application Temperature: +18°C to +50°C

### Testing

Ensure the application has:

- Sufficient tension,
- No creases or folds, and
- Sufficient overlap.

If holiday testing is required, the recommended voltages are:

- 10 kV for a single layer
- 15 kV for a double layer

### Availability

Densopol 80HT is available in 10 m rolls from 50 mm to 300 mm widths.

Additional sizes may be available on request

### Storage conditions

Store in a cool dry place

Important: Winn & Coales (Denso) Ltd pursue a policy to develop and continually improve all of our products and therefore the information given in this data sheet is intended as a general guide and does not constitute a warranty of specification. However, our sales personnel are committed to assist the user in establishing the suitability of the product for its intended purpose and additional specific information is available on request. Winn & Coales (Denso) Ltd operate a Quality Management System registered to BS EN ISO 9001 (BSI Certificate no. FM01548) and an Environmental Management System registered to BS EN 14001 (BSI Certificate 583748).

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## Typical Properties

| Property  | Value                                    | Method                                | Tolerance                |
|---|--|---------------------------------------|--------------------------|
| Total Thickness   | 1.85 mm                                  | ASTM D1000                            | ± 0.25 mm                |
| Length of roll  | 10 m                                     |                                       | -0, +0.25 m              |
| Weight  | 2.28 kg/m <sup>2</sup>                   |                                       | ± 0.20 kg/m <sup>2</sup> |
| Elongation at break<br>at 23°C<br>at 40°C   | 22%<br>22%                               | ASTM D1000                            | Minimum 15%<br>-         |
| Breaking strength<br>at 23°C<br>at 40°C   | 10 N/mm<br>5 N/mm                        | ASTM D1000                            | Minimum 8<br>-           |
| Modulus at 10% extension<br>at 23°C<br>at 40°C  | 8 N/mm<br>4 N/mm                         | ASTM D1000                            |                          |
| Adhesion peel strength<br>to primed steel<br>at 23°C<br>at 40°C<br>to self<br>at 23°C<br>at 40°C  | 4 N/mm<br>0.4 N/mm<br>3 N/mm<br>0.3 N/mm | ASTM D1000<br>(24 hr)                 | 3.0-5.0<br>2.0-4.0       |
| Tear strength at 23°C   | 75 N                                     | ASTM D1000                            | ± 5                      |
| Breakdown voltage<br>Single layer at 23°C<br>Double layer at 23°C   | 20 kV<br>40 kV                           | ASTM D1000                            | minimum                  |
| Insulation Resistance at 23°C   | 10 <sup>6</sup>                          |                                       | MΩ                       |
| Impact Resistance (double layer)<br>at 23°C<br>at 40°C  | 10 Nm<br>5 Nm                            | ASTM G14                              | ±2                       |
| Indentation Resistance (double layer)<br>residual thickness<br>at 23°C<br>at 40°C<br>continuity at 15kV after indentation<br>at 23°C<br>at 40°C | 0.8 mm<br>0.5 mm<br>PASS<br>PASS         | DIN 30672 Pt 1<br>CLASS C             |                          |
| Cathodic disbonding resistance  | 15 mm                                    | ASTM G8<br>Method A, 30 day<br>radius | 20 mm<br>maximum         |
| Water Vapour Transmission (double layer)  | 0.55 g/m <sup>2</sup> /day               | ASTM E96<br>32°C, 50% RH              |                          |

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