

TECHNICAL DATA SHEET



400N PP Series – AS03

Tube Filling Compound for Polypropylene Tubes

Thixotropic water blocking compound suitable for filling most common designs of optical fiber cable. Unigel 400N PP has a working temperature range from -50 to +80 °C and exhibits excellent resistance to oxidation for long term stability. It exhibits excellent compatibility with commonly used polypropylene and other cable materials.

| Properties | Typical Value | Test Method |
|---|---------------|-------------------|
| Appearance | Translucent | Visual |
| Density, 25°C (g/ml) | 0.84 | ASTM D1475 |
| Flash point – base oil (°C) | ≥ 260 | ASTM D92 |
| Drop point (°C) | ≥ 200 | ASTM D 566 |
| Cone penetration, 25°C (dmm) | ≥ 350 | ASTM D 217 (M) |
| Cone penetration, -40°C (dmm) | ≥ 200 | ASTM D 217 (M) |
| Viscosity, 50 1/s, 25°C (Pa.s) | 17.0 | CR Ramp 0-100 1/s |
| Oil separation, 80°C / 24 hours (Wt %) | ≤ 1.0 | FTM 791-321 (M) |
| Volatility, 80°C, 24 hours (%) | ≤ 1.0 | FTM 791-321 (M) |
| Oxidation OIT, 190°C (min) | ≥ 30 | ASTM D3895 |
| Hydrogen generation, 80°C, 24hours (µl/g) | ≤ 0.1 | UNIGEL |

| Packaging Type | Net Weight (Kg) | Supply Options |
|-----------------------------------|-----------------|----------------|
| 210 Litre Drum (liners available) | 175kg | Single Journey |
| 1000 Litre IBC | 825kg | Single Journey |
| 1000 Litre Unibag | 750kg | Single Journey |

Compatibility

UNIGEL 400N PP is compatible with most cable grade polymers. Tests on typical acrylate coated optical fiber shows no reaction but it is recommended that compatibility tests are made with all materials likely to come into contact with 400N PP.

400N PP has shown excellent compatibility with commonly used Polypropylene tubes and is intended for use where Polypropylene is the primary tube material.

Processing

UNIGEL 400N PP has been designed for pumping from ambient conditions and is suitable for high speed loose tubing lines

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