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

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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