

TECHNICAL DATA SHEET

300N-500 Series

Tube Filling Compound



Thixotropic water blocking compound specifically formulated to meet the CACT specification. Unigel 300N-500 has a working temperature range from -40 to +80 °C and exhibits excellent resistance to oxidation for long term stability.

Properties	Typical Value	Test Method
Appearance	Translucent	Visual
Density, 25°C (g/ml)	0.85	ASTM D1475
Flash Point (°C)	≥200	ASTM D92
Drop Point (°C)	≥150	ASTM D566
Cone Penetration, 25°C (dmm)	≥350	ASTM D217 (M)
Cone Penetration, -40°C (dmm)	≥230	ASTM D217 (M)
Viscosity, 50 s ⁻¹ , 25°C (Pa.s)	5.3	UNIGEL - CR Ramp 0-100 s ⁻¹
Oil Separation, 150°C, 24 hours (Wt %)	≤ 0.8	FTM 791-321 (M)
Volatile Loss, 150°C, 24 hours (Wt %)	≤1.0	FTM 791-321 (M)
Oxidation OIT, 190°C (min)	≥30	ASTM D3895
Acid Value (mg KOH/g)	≤0.1	ASTM D974-85
Water Content (ppm)	≤100	ASTM D4019-88
Hydrogen Generation, 80°C, 24 hours (μl/g)	≤0.02	UNIGEL
Fungal Growth	Nil	ASTM G21

Packaging Type	Net Weight (Kg)	Supply Options
210 Litre Drum	175kg	Single Journey
1000 Litre IBC	825kg / 765Kg	Single Journey / Returnable
1000 Litre Stainless Steel Vessel	825kg	Returnable
1000 Litre Unibag	750kg	Single Journey

Compatibility

UNIGEL 300N-500 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 300N-500

Processing

UNIGEL 300N-500 has been designed for pumping from ambient conditions and is suitable for high speed loose tubing lines

The data presented herein is given in good faith and correct to the best of our knowledge at publication. Values quoted are typical and do not constitute a guarantee of performance and UNIGEL reserve the right to make alterations without notice. UNIGEL is a registered trademark of UNIGEL IP Ltd.

UNIGEL (UK) Ltd.
Unit 7, Park View, Alder Close
Eastbourne, East Sussex
BN23 6QE, United Kingdom

UNIGEL (USA) Inc.
1027 19th Street S.W
Hickory, NC 28602
United States of America

UNIGEL Compounds Sdn. Bhd.
11, Jalan Utas 15/7
40200 Shah Alam,
Selangor, Malaysia