

TECHNICAL DATA SHEET



Unilite Filling – AS01 Tube Filling Compound

Low density, semi-dry compound, suitable for filling most common designs of optical fiber cable. Unilite has a working temperature range from -50 to +80 °C and exhibits excellent resistance to oxidation for long term stability

Properties	Typical Value	Test Method
Appearance	White	Visual
Density, 25°C (g/ml)	0.45	ASTM D1475
Flash Point – Base Oil (°C)	≥200	ASTM D92
Dropping Point (°C)	≥180	ASTM D566
Cone Penetration, 25°C (dmm)	410	ASTM D217 (M)
Cone Penetration, -40°C (dmm)	≥200	ASTM D217 (M)
Viscosity, 10 1/s, 25°C (Pa.s)	50	UNIGEL CR Ramp 0-12 1/s
Oil Separation, 100°C, 24 hours (Wt %)	Zero	FTM 791-321 (M)
Volatile Loss, 100°C, 24 hours (Wt %)	≤1.0	FTM 791-321 (M)
Oxidative Induction Time, 190°C (min)	≥30	ASTM D3895
Acid Value (mg KOH/g)	≤0.3	ASTM D974-85
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	87.5kg	Single Journey
1000 Litre Unibag	400kg	Single Journey

Compatibility

Unilite Series is compatible with most polymers, steel / aluminium tapes and wires. Tests on typical jacketing polymers such as HDPE may show minimal interaction. However it is recommended that compatibility tests are made with all materials likely to come into contact with Unilite.

Processing

Unilite Series can be pumped at ambient conditions from packaging to application point, Unilite is thixotropic and does not require pre-heating.

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