



Optifill H2000 X280

Optifill H2000 X280 is especially designed for use as a water blocking, hydrogen absorbing compound in optical fibre telecommunication cables.

Optifill H2000 X280 is suitable for application by cold drum pump at ambient temperatures.

Optifill H2000 X280 is a soft, thixotropic, hydrophobic gel based on hydrocarbon oils and polymers, and incorporating a hydrogen scavenger system.

Features and Benefits:

- High capacity for absorption of hydrogen
- Resists oil separation at elevated temperatures
- Ideally suited for use in stainless steel tube constructions
- Recommended for use over the service temperature range -40°C to $+120^{\circ}\text{C}$

Physical Properties

Appearance	Visual	Grey / Black Gel
Density at $20^{\circ}\text{C}/\text{gcm}^3$	ASTM D1475	Typical
Flash Point of Base Oil (Open)/ $^{\circ}\text{C}$	ASTM D92	200 Minimum
Cone Penetration at $25^{\circ}\text{C}/0.1\text{ mm}$	ASTM D217	300 Minimum
Cone Penetration, 24 hours at $-40^{\circ}\text{C}/0.1\text{ mm}$	ASTM D217	200 Minimum
Viscosity at 20°C , $50\text{s}^{-1}/\text{mPa.s}$	DIN 53019 (Haake VT 550)	6000 - 8000
Oil Separation, 24 hours at 120°C	FTM 791-B (321.2)	Nil
Loss by Evaporation, 24 hours at 80°C	FTM 791-B (321.2)	1% Typical
Hydrogen Absorption, 24 hours at STP/ $\text{cm}^3\text{ g}^{-1}$	H & R Method [†]	0.2 Typical
Tube Drainage, 24 hours at 80°C , 3.8mm diameter	Stainless Steel Tube	0%

[†] Hydrogen Absorption Test Method: Compound is contained in a sealed chamber, initially subjected to hard vacuum, then flooded with hydrogen gas and re-sealed. The absorption is measured as a function of the decrease in pressure measured within the sealed chamber over a period of 24 hours, with temperatures and pressures converted to STP (standard temperature and pressure, i.e. 273°K and 1 atm.)

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

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