



## ITCOGEL LF 51

ITCOGEL LF 51 Cable Filling Gel is a thixotropic, non - melting, water barrier compound with very low density. It is used for filling of Copper Telephone Cables & also as flooding compound for interstitial filling of the core in Optical Fibre Cables.

ITCOGEL LF 51 has very low permittivity ( dielectric constant ) and hence gives excellent electrical properties for use in Copper Telephone Cables. Additional features and advantages of using ITCOGEL LF 51 are as follows:

- Reduced weight of Cable
- Reduced size of Cable by decrease of polyethylene insulation on each conductor
- Cold pumping at room temperature
- Better water-blocking of Cable through complete-filling of the voids between the conductors
- High drop point (can pass drip test under stringent conditions)
- Reduced cable stiffness at lower temperatures

Appearance	Opaque White Gel without visible impurities	Visual (Erichsen Gauge 100 μ)
Flash Point COC - °C	> 230	ASTM D 92
Drop Point - °C	> 190	ASTM D 566
Viscosity at 25°C, 100 rpm - cps	60000 ± 10000	Brookfield Viscometer HADV, Spindle No. 7
Cone Penetration - 1/10 mm at + 25°C	350 ± 30	ASTM D 937
Density at 25°C - g/cm <sup>3</sup>	0.44 ± 0.02	ASTM D 1217
Volatility, 24 hrs at 100°C - %	< 1	FTM 791 C
Oil Separation, 24 hrs at 100°C - %	Zero	FTM 791 C
Oxidation Induction Time, 190°C, Alu. Pan - minutes	> 30	ASTM D 3895
Dielectric Constant at 20°C, 1 MHZ	≤ 1.6	ASTM D 924
Volume Resistivity at 500 VDC and 100°C - Ω cm	>10 <sup>12</sup>	ASTM D 1169

**Packing** In metal drums with epoxy lining : Height – 885 mm, Internal Diameter – 570 mm, 90 Kg Nett weight. Bulk Bag (Fluid Bag) packing also available on request.

**Storage** Minimum 3 years in original packed condition stored at room temperature.

**Safety** As per our knowledge and available information, ITCOGEL LF 51 does not pose any health hazard. For further information, please refer to MSDS a copy of which is available upon request.

**Compatibility** ITCOGEL LF series have been tested and found compatible with most of the associated cable materials. Further information is available on request.

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Information provided in this Data Sheet is based on our knowledge and experience and is meant for general guidance only, without guarantee or representation as to results. Suitability of the product for an intended use shall be the sole responsibility of the user. We reserve the right to modify the above specified values without notice. For further information regarding material specification and / or application conditions, please contact ITCO Industries Limited.