



ITCOGEL C 450

ITCOGEL C 450 Flooding Compound (Thixotropic Jelly) is a water- blocking compound used for filling of interstitial space in the core of Optical Fibre Cables. It is based on synthetic and aliphatic hydrocarbons and has been formulated to meet a wide range of processing and performance requirements especially the drip test and water penetration test.

ITCOGEL C 450 exhibits good stability in a cable core over a wide temperature range and is an excellent choice for special aerial cables used in cold climatic conditions.

Appearance	Transparent Gel without visible impurities	Visual (Erichsen Gauge 100 μ)
Flash Point COC - °C	> 230	ASTM D 92
Drop Point - °C	> 200	ASTM D 566
Viscosity at 25° C, 100 rpm - cps	14000 ± 2000	Brookfield Viscometer HADV, Spindle No. 7
Viscosity (Typical) at 25° C, D = 50 1/S, -mPas	6500	Haake Rheometer RV 1 (DIN 53019)
Cone Penetration - 1/10 mm at + 25° C	≥ 370	ASTM D 937
Density at 25° C - g/cm ³	0.84 ± 0.01	ASTM D 1217
Volatility, 24 hrs at 150° C - %	< 1	FTM 791 C
Oil Separation, 24 hrs at 150° C - %	Zero	FTM 791 C
Oxidation Induction Time, 190° C, Alu. Pan - minutes	> 30	ASTM D 3895

Packing In metal drums with epoxy lining : Height – 885 mm, Internal Diameter – 570 mm, 170 Kg Nett weight. Bulk Bag (Fluid Bag) with 700 / 750 Kg Nett weight.

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

Safety As per our knowledge and available information, ITCOGEL C 450 does not pose any health hazard. For further information, please refer to MSDS a copy of which is available upon request.

Compatibility ITCOGEL C series products have been tested and found compatible with most of the associated cable materials. Further information is available upon request.

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ITCOGEL™

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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.