



ITCOGEL C 500 S | TECHNICAL DATA SHEET

ITCOGEL C 500 S is a Core Filling non-thixotropic Jelly used for interstitial filling/flooding of Optical Fibre Cables and filling / flooding of Copper Telecommunication Cables. It is based on synthetic and aliphatic hydrocarbons and has been designed to meet a wide range of processing and performance requirements especially the drip test and water penetration test.

Appearance	White Viscous Jelly without visible impurities	Visual (Erichsen Gauge 100 μ)
Flash Point COC - °C	> 230	ASTM D 92
Drop Point - °C	> 90	ASTM D 566
Kinematic Viscosity at 120°C - cst	175 ± 25	ASTM D 445
Cone Penetration, 25°C - 1/10 mm	75 ± 20	ASTM D 937
Density at 25°C - g/cm ³	0.86 ± 0.01	ASTM D 1217
Oil Separation - %	Zero	IEC 60811-5-1 clause 5
Total Acid Value – mgKOH/gm	< 0.1	ASTM D 974
Resistivity at 100°C - Ω.cm	≥ 10 ¹⁴	ASTM D 1169
Dielectric Constant at 23°C, 1 MHz	≤ 2.3	ASTM D 924
Dissipation Factor at 23°C (1 MHz) at 100°C	< 0.0015 < 0.0010	ASTM D 150 ASTM D 924
Oxidation Induction Time, 190°C, Cu. Pan - minutes	>10	ASTM D 3895

Packing In metal drums with epoxy lining: Height – 885 mm, Internal Diameter - 570mm , 170 Kg Nett weight

Storage Minimum 3 years in original closed packing condition stored at room temperature

Safety As per our knowledge and available information, ITCOGEL C 500 S does not pose any health hazard. For further information, please refer to MSDS a copy of which is available on request.

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

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