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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 a 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	Visual
		without visible impurities	(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		$0.86\pm\ 0.01$	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)		< 0.0015	ASTM D 150
at 100° C		< 0.0010	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.

UD 04/18



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 sale 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.