



**ITCOGEL T 100**

ITCOGEL T 100 Tube Filling Compound (Thixotropic Jelly) is a soft, non-melting, translucent, water barrier compound. It is based on synthetic and aliphatic hydrocarbons and has been formulated to meet a wide range of processing and performance requirements. It is used in filling, buffering of loose tube and direct laid fibres in slotted core and ribbon designs of Optical Fibre Cables. It is also suitable for certain designs of OPGW Cables.

ITCOGEL T 100 exhibits good stability over a wide temperature range of - 60°C to + 85°C.

Appearance	Translucent 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 Typical Values : 10 rpm 100 rpm	22000 ± 5000 78000 22500	Brookfield Viscometer HADV, Spindle No. 7
Viscosity (Typical) at 25°C, D = 50 1/S - mPas	8500	Haake Rheometer RV1 (DIN 53019)
Cone Penetration - 1/10 mm at + 25°C at - 40°C Typical Values: + 25°C - 40°C	≥ 390 > 270 395 320	ASTM D 937
Density at 25°C - g/cm <sup>3</sup>	0.83 ± 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
Hydrogen Generation, 24 hrs at 80°C - μl/g	< 0.03	ITCO: ITM 28
Glass Transition Temperature (Typical)	≤ - 80°C	ASTM D 3418

**Packing** In metal drums with epoxy lining: Height – 885 mm, Internal Diameter – 570 mm, 170 Kg Nett weight. In 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 T 100 does not pose any health hazard. For further information, please refer to MSDS a copy of which is available upon request.

**Compatibility** ITCOGEL T series products have been tested and found compatible with most of the associated cable materials including Fibre Coatings and Coloring Inks. Further information is available upon request.

**Itco Industries Limited**

**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.*