

ITCOGEL T 250

ITCOGEL T 250 Tube Filling Compound (Thixotropic Jelly) is a soft, non-melting, transparent, 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.

ITCOGEL T 250 exhibits good stability over a wide temperature range of - 40°C to + 85°C.

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| 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 Typical Values : 10 rpm 100 rpm | 9500 ± 1000 38400 9600 | Brookfield Viscometer HADV, Spindle No. 7 |
| Viscosity (Typical) at 25°C, D = 50 1/S - mPas | 4500 | Haake Rheometer RV1 (DIN 53019) |
| Cone Penetration - 1/10 mm at + 25°C at - 40°C at - 30°C Typical Values : + 25°C - 30°C - 40°C | ≥ 390 > 200 > 250 410 285 225 | ASTM D 937 |
| Density at 25°C - g/cm ³ | 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 |
| Tube Drainage in 2.00 mm ID Empty Tube, 24 hrs at 80°C | Pass | ITCO : ITM 09 |
| Hydrogen Generation, 24 hrs at 80°C - µl/g | < 0.03 | ITCO : ITM 28 |
| Glass Transition Temperature (Typical) | ≤ - 60°C | ASTM D 3418 |

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 T 250 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 Colouring Inks. 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.