ITCOGEL™

Protecting the heart of your cables...

www.itcoindia.com

sales@itcoindia.com

ITCOGEL HA 40 | TECHNICAL DATA SHEET

ITCOGEL HA 40 is a thixotropic gel specifically formulated for filling of stainless steel and aluminium tubes for OPGW and Submarine cables. It contains an effective and high performing hydrogen scavenger to absorb any hydrogen that is generated during welding of the cable or due to environmental effects during the life span of the cable, thus preventing the diffusion of hydrogen into the optical fibers.

It is a soft, non-melting compound having excellent moisture blocking properties and exhibits good stability over a wide temperature range by remaining flexible until -50°C and non-draining until +100°C.

Appearance	Dark Grey / Black 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, D = 50 1/S - mPas	6000 ± 1500	DIN 53019
Cone Penetration - 1/10 mm at + 25˚C at - 40˚C	 ≥ 380 > 250	ASTM D 937
Density at 25˚C - g/cm^3	0.83 ± 0.02	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	> 60	ASTM D 3895
Hydrogen Absorption, 24 hrs – cm^3 / g	≥ 0.2	ITCO : ITM 29

Packing	In metal drums with epoxy lining: Height – 885 mm, Internal Diameter – 570 mm, 170 Kg Nett weight. In Bulk Bag (Fluid Bag) with 750 Kg Nett weight. In IBC with 825 kg Nett Weight.
Storage	Minimum 3 years in original packed condition stored at room temperature.
Safety	As per our knowledge and available information, ITCOGEL HA 40 does not pose any health hazard. For further information, please refer to MSDS a copy of which is available upon request.
Compatibility	ITCOGEL HA series products are considered compatible with most of the associated OPGW & Submarine cable materials including Stainless Steel Wire, Aluminum, Fiber Coatings and Colouring Inks but we recommend that suitable compatibility tests are made with all the relevant materials used in this case.

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