

TECHNICAL DATA SHEET

LOOSE TUBE FILLING COMPOUND - COGEL TFC

COGEL TFC is a highly purified, odorless, non-toxic, hydrophobic, non-melting thixotropic gel used for loose tube filling of optical fibre cables having 100% water-blocking properties.

SALIENT FEATURES OF COGEL - TFC :

- Controlled compound rheology to prevent fibre overfeed and micro bending.
- Remains soft and flexible in extreme cold temperatures up to -40 °C .
- Soft non-melting gel which is applied at ambient temperature using conventional cold pumping equipment.
- Available in wide viscosity range to suit customers processing requirements
- Very high oxidation stability
- Zero oil-separation at 150 °C
- Fungus resistant
- Low hydrogen generation

COMPATIBILITY:

COGEL-TFC is compatible with PBTP, Nylon 12, LDPE, Polyimide-12, Polycarbonate, Polypropylene products, fibre coating and UV colouring inks. Tests on all commonly used materials show no reaction but it is recommended that compatibility tests are made with all materials likely to come into contact with the gel.

HEALTH & SAFETY:

COGEL-TFC is non-greasy and fully removable. It is free from unpleasant odor and has no toxic and dermatic hazards.

S.NO.	PROPERTY	UNIT	TEST METHOD	VALUE
1	Working Temp. Range	°C	----	-40 to + 80
2	Cone Penetration @ 25 °C	dmm	ASTM D- 217	≥ 350
3	Cone Penetration @ -30 °C	dmm	ASTM D-217	≥ 230
4	Cone Penetration @ -40 °C	dmm	ASTM D-217	≥ 230
5	Viscosity @ 25 °C	m.Pas	Brookfield viscometer	< 2.0 lacs (2.5 rpm,7spin)
6	Flash Point	°C	ASTM D-92	≥ 200
7	OIT @ 190 °C , Alu. Pan	min	DSC, ONSET ASTM D-3895	≥ 30
8	Oil Separation @ 150 °C /24 Hrs	%	FTM-791 (321)	≤ 0.8
9	Hydrogen Generation	ul/ gm	Gas Chromatograph	≤ 0.1
10	Relative Density	g/ml	Internal	0.80 - 0.90
11	Volatility Loss	%	FTM-791 (391)	≤ 1.0
12	Drop Point	°C	ASTM D-566	≥ 150

PACKAGING:

The materials shall be packed in 160 kg M.S. barrels or 840 kg in IBC. The barrels will be properly sealed to ensure prevention of moisture ingress. On each barrel our name, grade, batch no., date of manufacture along with gross weight and net weight will be clearly mentioned.

MFGD BY : CORAL PETRO PRODUCTS.

Plot No. 18 & 19, Phase I, I.P, Pashamylaram, Patancheru Mandal,
Medak Dist. – 502307, India. Contact No: 08455-224152, Fax : 08455-224153

Doc No.: QC/01 (J)	Issue Date 01/04/2014	Rev.No. 00	Rev. Date
--------------------	-----------------------	------------	-----------