

TECHNICAL DATA SHEET

CABLE FILLING COMPOUND – CORGEL

CORGEL used for filling of polyethylene insulated copper conductor telecommunication cables is a 100 % hydrophobic hot-melt compound designed and formulated for easy processing and having excellent water blocking properties

SALIENT FEATURES OF CORGEL

- Drop melting point as per customer's specification. Working range: 80 - 100 deg. C
- Viscosity as per customer's specification. Working range: 80– 120 cst. At 120 deg. C
- Compatible with polyethylene insulation, polypropylene binders, tapes and all other materials used in PIJF cables.
- Very low shrinkage leaves no voids inside the cable after cooling ensuring ZERO water penetration test failures.
- Excellent stability at high temperatures and superior physical properties of flexibility and film strength.

COMPATIBILITY:

CORGEL is compatible with most cable grade polymers. Tests on all commonly used Materials show no reaction but it is recommended that compatibility tests are made with all Polymers likely to come into contact with the gel.

HEALTH & SAFETY:

CORGEL is quickly and easily removable. It is free from unpleasant Odour and have no Toxic and dermatic hazards. It is also non-corrosive and protects corrosion of copper and Other metals.

S.NO.	PROPERTY	UNIT	TEST METHOD	VALUE
1	Drop melting point	Deg. c	ASTM D 127	80 – 100
2	Cone penetration @ 25 ° C	dmm	ASTM D 937	35 – 60
3	Flash point	Deg. c	ASTM D 92	>230
4	K. Viscosity at 120 ° C	Cst	ASTM D 445	80 - 120
5	Specific gravity at 27 deg. C	Gm/cc	ASTM D 70	0.85 – 0.9
6	Colour	ASTM ---	ASTM D 1500 VISUAL	To specific requirement
7	Handling	Nil	TEC GR NO GR/CUG- 01/03 AUG/2003	Removable
8	Total acid value	Mg.KOH/gm	ASTM D 974	0.05 max
9	Power factor at 23 deg. C	Nil	ASTM D 924	0.0005 max
10	Volume resistivity at 100 ° C	Ohm-cm	ASTM D 1169 (B)	1 x 10 ¹⁰ min
11	Permittivity at 20 deg. C, 1 MHz	Nil	ASTM D 924	2.3 max
12	Stability test at 65 deg. C/ 5 days	Nil	TEC GR NO GR/CUG- 01/03 AUG/2003	No separation
13	Absorption	%	TEC GR NO GR/CUG- 01/03 AUG/2003	8 max
14	OIT at 200°C, AL Pan	Minutes	DSC	30 min

PACKING:

The materials shall be packed in 170 – 200 kg M.S. barrels. 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.

GUARANTEE:

Each consignment supplied shall be accompanied by a material safety data sheet and a test Certificate certifying the conformity of the material to the purchasers material specification.

MFGD BY : CORAL PETRO PRODUCTS.

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