

**VITAGEL MS (Tx)
OPTICAL FIBRE CABLE FILLING COMPOUND**

PRODUCT DISCRIPTION

VITAGEL - MS (Tx) has been developed for applications in using pressure filling at ambient temperatures. It is composed of base oils, thixotropic polymers, and natural greases additives. Its soft thixotropic nature allows for stable processing and controlled overfeeding of optical fibers into the cable. It is suitable for performance from temperature range -50°C to +80°C.

PARAMETERS

Sr. No.	Properties	Unit	Method	Specification	Committed Value
1	Appearance	--	Visual	Transparent thixotropic gel	Transparent thixotropic gel
2	Density@ 25°C	g/cm3	DIN 51757	0.85±0.05	0.8404
3	Drop Point (24 hours)	°C	IEC 811.5.1 B & ASTM D 566	To be complied with drip point but ≥100	160
4	Drip point (24Hrs.)	°C	REA PE 39	>70	>70
5	Flash Point	°C	ISO 2592	>230	237
6	Oil Separation (150°C; 24 hours)	%	FTM 791C	0	Nil
7	Volatility (150°C; 24hours)	%	FTM 791C	<2	0.06
8	Oil Separation (70°C; 10 days)	%	FTM 791C	0	Nil
9	Volatility (70°C; 10 days)	%	FTM 791C	<0.1	0.04
10	Water content	%	DIN 5177	<0.05	0.01
11	Acid value (100°C)	mg KOH/g	DIN 53402	<0.01	Nil
12	Corrosivity	-	IEC 811.5.1	No	No
13	Cone Penetration a) 25°C b) - 30°C	(1/10) mm	ISO 2137	350-450 >150	418 232
14	Oxidation Induction Time (180°C)	Minute	IEC 811.4.2. B	>20	39
15	Resistivity (100 – 500V) (100°C)	Ω x m	ASTM D 1169	>10 ⁸	1.4X10 ¹⁰
16	Resistivity (100 – 500V) (23°C)	Ω x m	ASTM D 1169	>10 ¹¹	1.3X10 ¹³
17	Typical viscosity, (D=50 1/s @25°C)	Pa.s	Haake Rheometer RV 1 (DIN 53019)	4.5 to 6.4	5.2
18	Viscosity at 25°C a) 100 rpm b) 10 rpm	Cps	Brookfield viscometer HADV, Spindle No. 7	a) 8500-10500 b) Approx 38400	9200 37590

PACKAGING

- ✓ MS open top 170kg drums.
- ✓ 820 Kg tote.

HANDLING & STORAGE

- ✓ Keep the material on flat, ventilated, dry and shaded areas. Keep away from direct heat source/ sunlight. Keep tightly close when not in use.

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