

VITAGEL MS (Ty II)

OPTICAL FIBRE CABLE FILLING COMPOUND

Product description

Vitigel – MS (Ty II) has been developed for applications in using pressure filling at ambient temperatures. 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 -40°C to +85°C.

Product Parameters

Sr. No.	Parameter	UOM	Test method	Specifications	Typical value
1	Base Material of Gel	-	-	-	Hydrocarbons & gellants
2	Nature of Gel	-	-	Highly purified without filler, Thixotropic, Air bubble free, Anti -toxic, Odorless, Hydrophobic / water blocking, Non-Tacky Non-Melting, Free from health hazard	Complies
3	Working temperature range	°C	-	-40 to 85	Passed
4	Drop Point	°C	ASTM D-566	≥150°C	178°C
5	Cone Penetration at 25°C	dmm	ASTM D 217/ 937	≥ 350	415
6	Cone Penetration at -40°C	dmm	ASTM D 217/ 937	≥ 230	236
7	Oil separation at 150°C, 24 hrs	%	FTM 791C	≤ 0.8	Nil
8	Hydrogen generation 24 hrs,80°C	µl/gm	To be tested by GC	≤ 0.1	---
9	Compatibility Test		ASTM D 4568 to be tested for 14 days at 70°C		
	i) Fiber coating	%	Test for micro bending & increase in weight.	≤ 1.0	0.3
	ii) UV coloring ink/thermal cured coloring	%	Test for color & increase in weight.	≤ 1.0	0.5
	iii) Compatible with tube/ associated material	%	Test for increase in weight	≤ 1.0	
	a) Polyamide-12				a) 0.85
	b) PBTP				b) 0.60
	c) PP				c) 0.89
10	Flash Point	°C	ASTM D-92	≥200°C	223°C
11	Density	gm/cm ³	DIN51757/ASTMD 1217/ASTM D-1475	0.80 -0.90	0.8472
12	Volatility loss at 150 °C, 24 hrs	%	FTM 791C	≤ 1.0	0.52
13	Oxidation Induction time at 190°C, ALU, PAN	Minutes	ASTM D3895	≥30	>40

Packing: 170 kg w/o bid & corrugated MS drum & 830 kg IBC

Storage conditions: Keep it in a dry, ventilated, and cool place. Avoid direct contact of heat source.

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