CECAGEL-T®

FILLING COMPOUNDS FOR OPTICAL FIBRE CABLES

Specialities

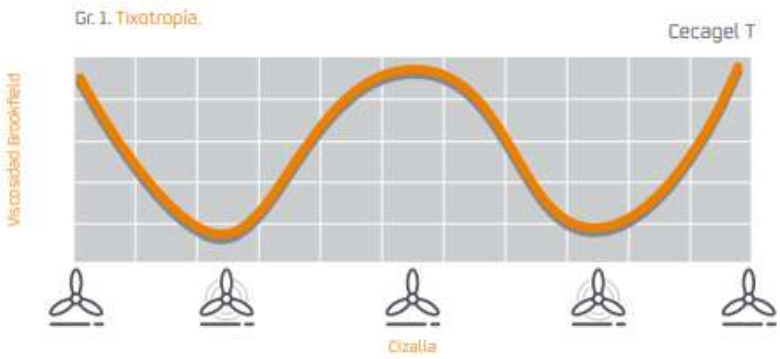
Description

The CECAGEL-T® range are filling gels for optical fibre cables ("OFC"). They are transparent and non-Newtonian (thixotropic) (see graph 1).

The CECAGEL-T® range from RLESA Specialities represents the most cutting-edge technology in filling products. They are made entirely from synthetic bases with a high degree of purity that provide a highly water-resistant gel structure; this offers characteristics of transparency and thermal stability suitable for fibre-optic cables.

Due to their special characteristics, they can be applied in cool conditions (25ºC) by simple pumping, such that when the filling settles inside the cable, it gels to form an effective protective barrier. The compounds also perform well under low temperatures, with their penetration practically unchanged (see graph 2) and sufficient fluidity in all weather conditions to facilitate the correct positioning of the small optical fibres, avoiding dangerous micro-folds.

The CECAGEL-T® compounds are compatible with the primary and secondary coverings normally used to cover optical fibres, such as PVC, Nylon and polyethylene, among others.



Unless otherwise indicated, the figures cited in the technical Characteristics should be considered typical

Specialities Technical Data Sheet. Version 4B. December 2020.

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Technical Characteristics*

	METODO	CECAGEL T®-400
Nature	-	Synthetic
Drop point (ºC)	ASTM D-566	> 200
Density (g/ml) at 25ºC	ASTM D-1475	0,84
Penetration (mm/10) at -40ºC	ASTM D-937	> 230
Penetration (mm/10) at -30 ºC	ASTM D-937	> 320
Penetration (mm/10) at 25 ºC	ASTM D-937	> 370
Brookfield Viscosity (SP29/10 rpm) (cP) at 70 ºC	IT-LAB-138	16000
Brookfield Viscosity (SP29/10 rpm) (cP) at 30 ºC	IT-LAB-138	27000
Viscosity 50 s-1 (cP) at 25ºC	plate-plate	4500±500
Oil separation (%w) (100 ºC, 24 h)	FTM-791	0
Oil separation (%w) (150 ºC, 24 h)	FTM-791	< 8
Volatility (%) at 100ºC, 24h	IT-LAB 178	< 1
Oxidation Induction Time, OIT (minutes) at 190 ºC	IT-LAB-142	> 30
Operating temperature (ºC)	-	-40 @ 100ºC
Flashpoint (ºC)	ASTM D-92	> 220

* The values indicated in the tables are typical values, not product specifications.

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