

General Description

LA4000HX is a thixotropic compound most commonly used in FIMT applications where higher temperatures along with hydrogen scavenging is required.

Performance in Optical Fiber Cables

The LA4000HX compound is suitable for operation up to 160C. The gel will survive at higher temperatures, but the scavenger will start degrading as temperatures approach or exceed 160C.

Cables manufactured with LA4000HX will show an excellent balance of properties and will pass both attenuation test at low temperatures and oil separation or drip test at high temperatures.

The compound does not affect inks generally used for optical fiber coating.

Processing

Gel may be pumped with the usual metering pump devices at room temperature (cold filling technology). Constant quality ensures high-speed, trouble-free production.

Health, Safety Precautions and Identification

LA4000HX was tested according to EU recommendations 83/467/EEC and 84/449/EEC and found to be:

- non toxic
- non irritant to eyes
- non irritant to skin
- non nutritive to fungus

Good personal hygienic practice should be used, and prolonged contact with skin should be avoided. Based on our current knowledge and available information, LA4000HX does not pose any health risks.

For further information, please refer to the Safety Data Sheet.

Packaging

| | | |
|-----------------------------------|--------------------------|--------------------------|
| 20 kg pail | top internal diameter | 328 ± 1 mm |
| | bottom internal diameter | 312 ± 1 mm |
| | height | 383 ± 1 mm |
| 170 kg ribbed drum | internal diameter | 571 ± 3 mm |
| | height | 875 ± 5 mm |
| 170 kg straight-sided drum | internal diameter | 571 ± 3 mm |
| | height | 885 ± 5 mm |
| 850 kg returnable (IBC) container | length x width x height | 1,200 x 1,000 x 1,185 mm |
| 850 kg disposable lined container | length x width x height | 1,200 x 1,000 x 1,400 mm |

Other container types and sizes such as plastic or stainless steel can be tailored to customer requirements based on quantities and location.

Storage Information

Protect from moisture; storage life several years.

Characteristics

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| Density (20°C) ASTM D1475 | 0.84 ± 0.02 | g/cm ³ |
| Flash Point DIN ISO 2592 | > 260 | °C |
| Viscosity DIN 53019 (20 s ⁻¹ , 25°C) DIN 53019 (20 s ⁻¹ , 80°C) | 30,000 ± 3,000 8,000 ± 800 | mPa•s mPa•s |
| Yield Stress (by means of flow curve, 20°C) | > 90 | Pa |
| Cone Penetration DIN 51580, ASTM D937 20°C -40°C | > 360 > 220 | l/10 mm l/10 mm |
| Volatiles (by weight) 80°C/24 hrs | < 0.1 | % |
| Oxidation Induction Time ASTM D3895 | > 60 | min |
| Oil Separation (FTM 791.C) 200°C/24 hrs | < 1 | % |

Compatibilities

| | |
|------------------|--|
| O.F. Coating | Compatible with O.F. coatings (UV Acrylate) commonly used in optical fiber cables |
| PET, PBT, PA, PC | Compatible with thermoplastic materials commonly used in optical fiber cables |
| PE | To be checked by the cable manufacturer; results are greatly influenced by material type |

This Technical Information reflects the current knowledge, and is designed to inform and advise. Info-Gel assumes no liability for correctness. Modifications may be made in the interest of technical improvement.