



LA4000HXHT

H2 Defender™ LA4000HXHT

General Description

LA4000HXHT is a thixotropic water blocking compound designed for high temperature FIMT applications where hydrogen scavenging is necessary.

Performance in Optical Fiber Cables

The flashpoints of both the gel and the hydrogen scavenger have been modified to survive at higher temperatures up to and exceeding 250C, while the original formulation starts to degrade at around 160C.

Cables manufactured with LA4000HXHT 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

LA4000HXHT 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, LA4000HXHT 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.

**LA4000HXHT****H2 Defender™ LA4000HXHT****Characteristics**

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)	28,000 ± 3000	mPa•s
DIN 53019 (20 s ⁻¹ , 80°C)	7,000 ± 1000	mPa•s
Yield Stress (by means of flow curve, 20°C)	> 90	Pa
Cone Penetration DIN 51580, ASTM D937		
20°C	> 360	1/10 mm
-40°C	> 220	1/10 mm
Evaporation loss, NOACK by TGA ASTM 6375 ramp to 200C, 10C/min	< 2	%
Oxidation Induction Time ASTM D3895	> 60	min
Oil Separation (FTM 791.C) 200°C/24 hrs	< 1	%
Hydrogen Absorption	≥ 2	cc H ² /g of gel

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.

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