

K550

Hydro Defender™ K550

General Description

K550 is a thixotropic compound suitable for filling and/or flooding the most common types of optical fiber cables, such as loose tube, slotted core, ribbon, etc.

Performance in Optical Fiber Cables

The chemical properties of the compound remain stable if kept in a temperature range between -50°C to +85°C; short exposures to temperatures up to 300°C will not affect them.

Cables manufactured with K550 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

K550 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, K550 does not pose any health risks.

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

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

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.



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Characteristics		
Density (20°C) ASTM D1475	0.85 ± 0.02	g/cm³
Flash Point DIN EN ISO 2592, ASTM D92	> 260	°C
Viscosity DIN 53019 (20 s ⁻¹ , 25°C)	27,250 ± 2,750	mPa•s
Yield Stress (by means of flow curve, 20°C)	> 40	Pa
Cone Penetration DIN 51580, ASTM D937 20°C -40°C	> 370 > 200	1/10 mm 1/10 mm
Volatiles (by weight) 80°C/24 hrs	< 0.1	%
Oxidation Induction Time ASTM D3895	> 60	min
Oil Separation (FTM 791.C) 120°C/24 hrs	0	%

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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