



## Weight Defender™ LD550US

### General Description

LD550US is a thixotropic, low density, low viscosity gel suitable for filling optical fiber cables regardless of the tube type. This material is compatible with most grades of PE/PP/PBT and other plastics generally used in tube manufacturing.

### Performance in Optical Fiber Cables

The chemical properties of the compound remain stable if kept in a temperature range between -50C and +85C during storage. Short exposures to temperatures as high as 300C will not affect properties. Cables manufactured with LD550US show an excellent balance of properties and will pass both attenuation test at low temperatures and oil drip tests at higher temperatures.

The LD550US is compatible with PE/PP/PBT and other inks generally associated with fiber optic cables.

### 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

LD550US 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, LD550US does not pose any acute or chronic 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.

For technical specifications on this product, email us at [sales@info-gel.com](mailto:sales@info-gel.com)



### Weight Defender™ LD550US

#### Characteristics

Density (20°C) ASTM D1475	0.63	g/cm <sup>3</sup>
Flash Point DIN EN ISO 2592,ASTM D92	> 290	°C
Viscosity DIN 53019 (20 s <sup>-1</sup> , 25°C)	12 500± 1,000	mPa•s
Yield Stress (by means of flow curve) 60°C	> 30	Pa-s
Volatiles (by weight) 80°C/24 hrs	< 0.1	%
Oxidation Induction Time ASTM D3895	> 40	min
Oil Separation (FTM 791.C) 85 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	Compatible with most commonly used materials in the fiber optic cable industry

*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.*



For additional information:

**Info-Gel LLC**  
2311 Distribution Center Drive Suite F  
Charlotte, NC 28269 USA  
T: +1 704 599 5770  
F: +1 704 599 4399

**Sales/Technical inquiries:**  
Info-Gel Sales Email:  
[sales@info-gel.com](mailto:sales@info-gel.com)

Info-Gel is a member of The Stewart Group of companies.

Effective Date:  
07/14/2023 Page 2 of 2