

# Technical Data Sheet

## LA4000

### General Description

LA4000 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.

Chemical manufacturer, importer, or other responsible party information:

Info-Gel LLC (USA)  
2311 Distribution Center Drive,  
Suite F  
Charlotte, NC USA

Info-Gel LTD (IR)  
Unit 16, Annacotty Industrial State  
Annacotty Co., Limerick Ireland

EMERGENCY CONTACT:  
- Tel.: +1 704 599 5770  
- Email: Sales@Info-Gel.com

### Performance in Optical fiber Cables

LA4000 was designed as a high temperature resistant material, and shows good TGA results (10°C /min ramp rate) up to 250°C and can handle short time exposures up to 300°C.

Cables manufactured with LA4000 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

LA4000 was tested according to EU recommendations 83/467/EEC and 84/449/EEC and found to be nontoxic, nonirritant to eyes, nonirritant to skin and nonnutritive 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, LA4000 does not pose any health risks.

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

### Packaging

Type of Packaging	Net Weight	Gross Weight	Pallet Type & Size
Pail	4 – 20 Kg	5 - 22 Kg	NA
Drum	170 Kg	200 – 765 Kg	Heat Treated Pallet – 48Wx48Lx48H in. (1 – 4 drums per pallet)
IBC (Disposable or Returnable)	850 Kg	893 Kg	Attached Metal Pallet – 48Wx40Lx46H in. (1 IBC per pallet)
EZ Box (Disposable)	850 Kg	908 Kg	Heat Treated Pallet – 46Wx46Lx55H in. (1 box per pallet)
Fluid Bag (Disposable)	850 Kg	890 Kg	Heat Treated Pallet – 49Wx45Lx48H in. (1 bag per pallet)
Stainless Still Tote (Returnable)	800 Kg	1,035 Kg	Attached SS Pallet – 44Dx67H in. (1 SS per pallet)
River City Tote (Returnable)	1,200 kg	1,360 Kg	Attached Plastic Pallet – 48Wx48Lx83H in. (1 RC per pallet)

### Storage

Protect from moisture; storage life several years if store between -40°C and +85°C.

### Characteristics

Density (20°C) ASTM D1475	- 0.84 ± 0.02	g/cm3	Cone Penetration DIN 51580, ASTM D937	> 220 (at -40°C) > 360 (at 20°C)	1/10 mm
Flash Point DIN ISO 2592	>260	°C	Volatiles (by weight) 80°C/ 24 hrs	< 0.1	%
Viscosity DIN 53019 (at 20s <sup>-1</sup> , 25°C)	30,000 ± 3,000	mPa•s	Oxidation Induction Time ASTM D3895	> 60	Min
Viscosity DIN 53019 (at 20s <sup>-1</sup> , 80°C)	8,000 ± 800		Oil Separation (FTM 791.C) 200°C/ 24 hrs	<1	%
Yield Stress (20°C) (By means of flow curve)	>90	Pa	Dropping Point ASTM D2265	<300	°C

### 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