

DATA SHEET

OF-145-N: Optical Fiber Coating

OF-145-N is a low refractive index optical fiber coating, developed for the cladding of optical fibers. The material is designed to be compatible with Optical fiber Drawing Towers.

The extension N denotes there is No adhesion promoter in the formulation. This allows a longer shelf life, but adhesion under wet conditions is lower.

Properties

| | Liquid state |
|-----------------------------------|--------------|
| RI liquid at 589 nm | 1.433 |
| Density, g/cm ³ | 1.29 |
| Viscosity, cps @ 25°C | 3000 |
| | Cured state |
| RI cured at 589 nm | 1.455 |
| RI cured at 950 nm | 1.448 |
| Adhesion to glass, 90° Peel, g/cm | 800 |
| Elastic modulus, MPa | 1100 |
| Tensile Strength, MPa | 30 |
| Elongation at Break, % | 13 |

The product is supplied pre-filtered to below 1 micron particles.

Storage

1. Avoid unnecessary exposure to ambient light and moisture.
2. Long term storage should be at ambient conditions of 10-30°C.
3. The coating is supplied in glass bottles. Keep container closed to avoid moisture penetration.
4. The shelf life is 12 months.

Application

OF-145-N is intended to be used in optical fiber drawing towers. The UV curing is done under nitrogen. Typically, a dose of 1000-2000 mJ/cm² is necessary. Any UV source in the range 300-400 nm can be used. When properly cured under nitrogen, the surface should be non-tacky.

Keep the bottle closed in all times when not in use. The material is sensitive to light.

Safety: Refer to the SDS

Note: The above information is believed to be reliable, but it is not to be taken as a representation, warranty or guarantee. Customers should perform their own QC, QA and evaluation tests.

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