

## DATA SHEET

# OF-136-N: Optical Fiber Coating

OF-136-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               | 1.359        |
| Density, g/cm <sup>3</sup>        | 1.58         |
| Viscosity, cps @ 25°C             | 3200         |
|                                   | Cured state  |
| RI cured at 589 nm                | 1.369        |
| RI cured at 950 nm                | 1.363        |
| Adhesion to glass, 90° Peel, g/cm | 50           |
| Elastic modulus, MPa              | 55           |
| Tensile Strength, MPa             | 6            |
| Elongation at Break, %            | 52           |

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-136-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/cm<sup>2</sup> 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 at all times when not in use. The material is sensitive to both light and moisture.

**Safety:** Refer to the SDS

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

Updated: April 21, 2024