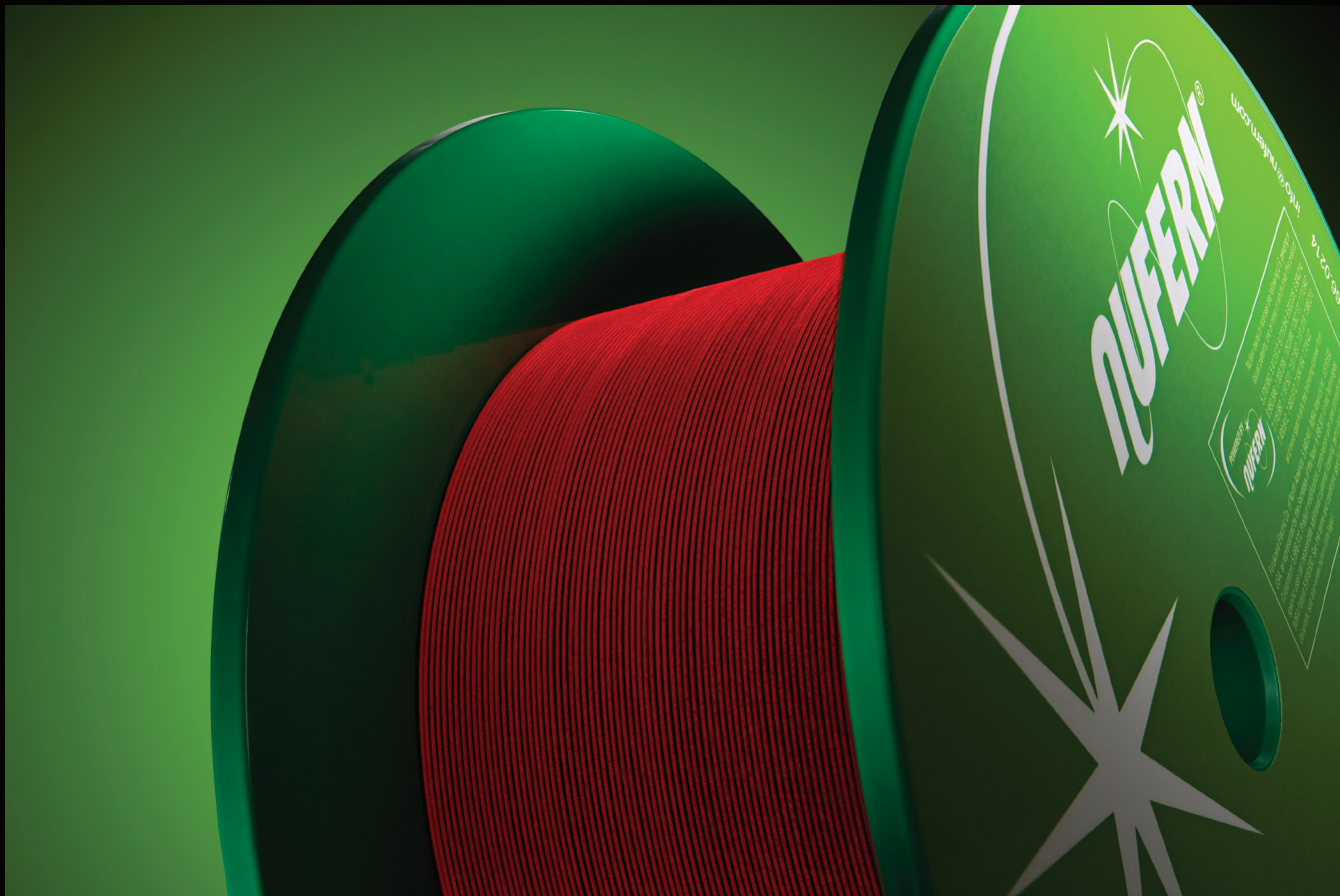


# *NU*COAT<sup>TM</sup>FA



## Environmentally Stable Fluoroacrylate Optical Fiber Coating

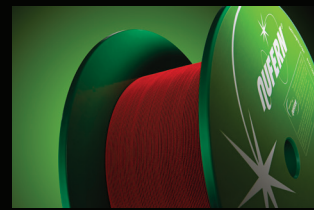
### Latest Generation Coating Technology for Fiber Lasers

Nufern has developed NuCOATFA, a new and improved proprietary low index acrylate coating for double-clad fibers used in lasers, amplifiers, and many other fiber optic applications. Fielded applications require tolerance to storage and deployment conditions involving humid and warm environments. Building upon our existing technology, NuCOATFA provides superior moisture and attenuation performance over previous fluoroacrylates. NuCOATFA makes Nufern double-clad fibers the most environmentally tolerant fibers in the industry. For unsurpassed performance select Nufern double-clad fibers with NuCOATFA technology.



COHERENT.

NUFERN



### Optical Benefits

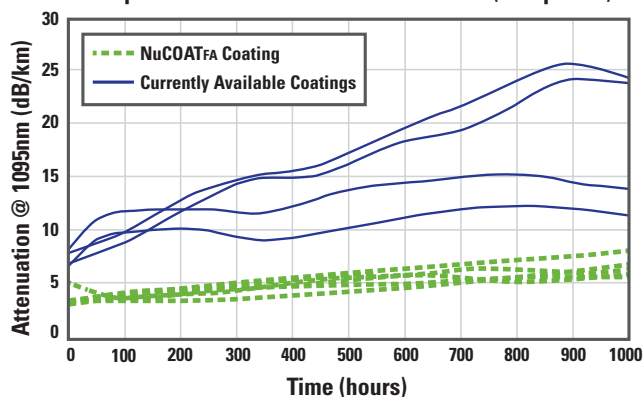
- Low loss for high power fiber lasers.
- Industry standard >0.46 NA ensures compatibility across double-clad fibers.
- Suitable for all standard pump wavelengths.
- Excellent resistance to damp and dry heat environments.
- Every NuCOAT<sup>FA</sup> coated fiber is verified for consistent damp heat performance.
- Predictive lifetime models based on extensive characterization available.

### Mechanical Benefits

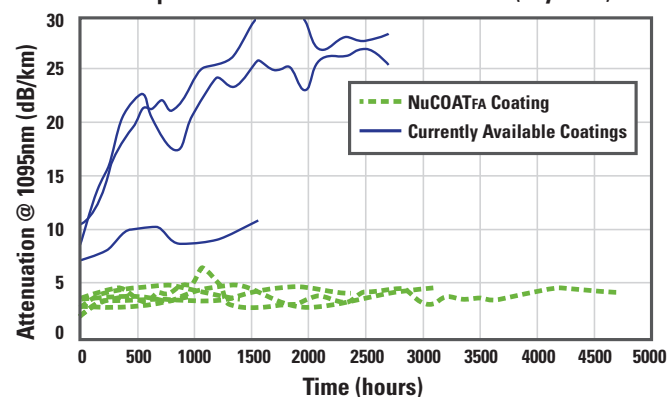
- Excellent mechanical reliability exceeding Telcordia tensile strength standards.
- Compatible with standard coating stripping methods ensuring highly reliable splices.
- Enhanced damp heat resistance improves longevity in real world conditions.
- Excellent Dynamic Fatigue Stress Corrosion performance exceeding Telcordia standards.

**Nufern's NuCOAT<sup>FA</sup> technology performs better than currently available coatings in both damp heat and dry heat testing.**

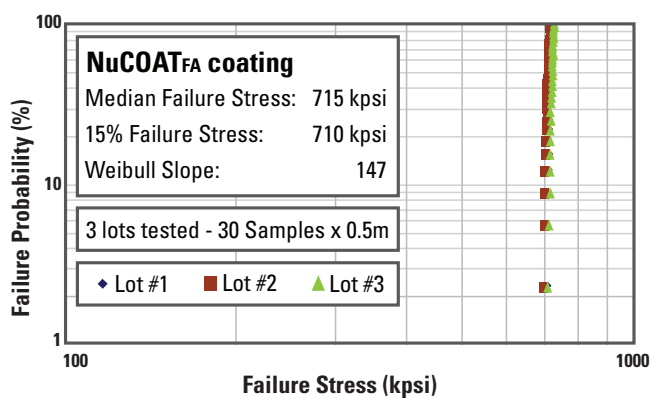
**Comparative Performance in 60°C 85% RH (Damp Heat)**



**Comparative Performance in 85°C 1% RH (Dry Heat)**



**NuCOAT<sup>FA</sup> coating demonstrates high dynamic tensile strength with a narrow Weibull stress distribution of 715 kpsi.**



**NuCOAT<sup>FA</sup> gives Nufern Fiber a Dynamic Fatigue Stress Corrosion Parameter (n) > 20**

