

# ArmD® UV-SRC

## Silica/silica fiber with hermetic carbon layer

Armadillo is pleased to introduce a new product designed for the UVC spectral range. Enhanced solarization resistance and increased stability in our UV-SRC fiber expand its application possibilities across a wide range of scenarios.

### Wavelength

ArmD® UV-SRC	180 - 2100 nm
ArmD® UV-SR	190 - 2100 nm

### Numerical Aperture (NA)

Low	0.12 ± 0.02   0,15 ± 0,02
Standard	0.22 ± 0.02
High	0.26 ± 0.02   0,28 ± 0,02

## Advantages

- Significantly improved deep UV solarization resistance
- Hermetic coating
- Customizable Numerical Aperture (NA) from 0.12 to 0.30 available upon request
- Very low NA expansion
- Biocompatible material
- Manufactured at GMP and ISO 9001 compliant facility



## Technical data

Operating temperature	- 190 to + 150 °C
Core diameter	Available from 90 to 1000 µm
Standard core / cladding ratios	1 : 1,06   1 : 1,1   1 : 1,2   1 : 1,4 or customised
OH Content	High (> 700 ppm)
Standard proof test	70 kpsi (polyimide jacket)
Minimum bending radius	50 × cladding diameter (short-term mechanical stress) 300 × core diameter (during use with high laser power)

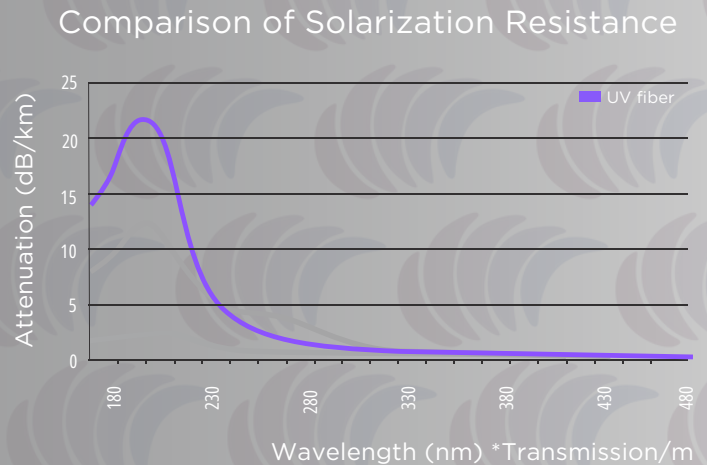
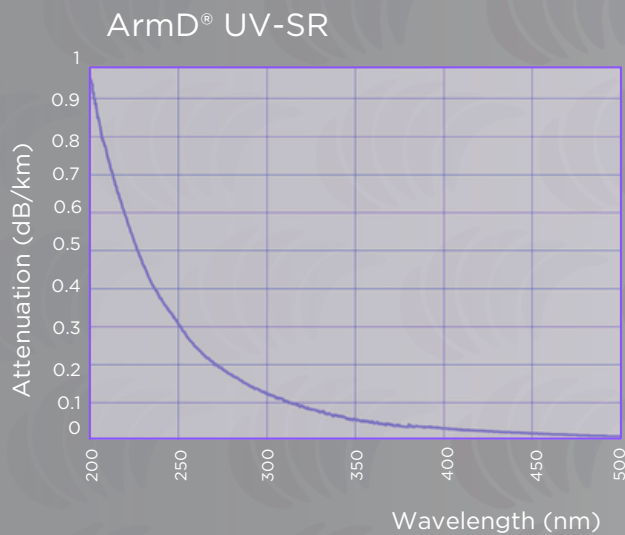


Scan to see more



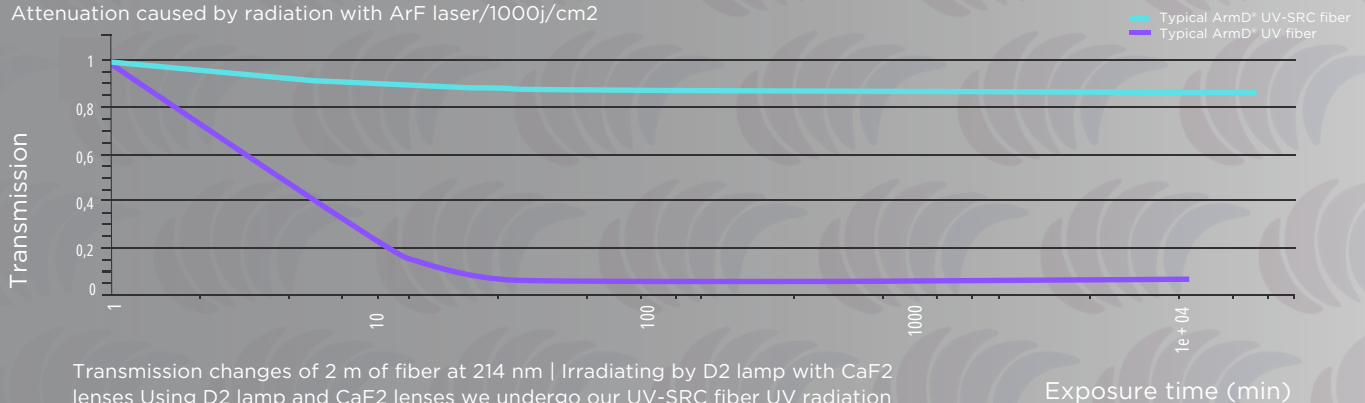
# Attenuation values

The following diagrams provide an overview of attenuation values in relation to wavelengths



## Transmission Comparison

Attenuation caused by radiation with ArF laser/1000j/cm<sup>2</sup>



Transmission changes of 2 m of fiber at 214 nm | Irradiating by D2 lamp with CaF<sub>2</sub> lenses Using D2 lamp and CaF<sub>2</sub> lenses we undergo our UV-SRC fiber UV radiation which has maximal intensity from 180 to 240 nm. Solarization dynamics comparison for ArmD® UV and ArmD® UV-SRC at wavelength 214 nm you can see above.

## Applications

The primary selection for various applications such as spectroscopy, medical diagnostics, medical technology, laser delivery systems, and more.



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