

ArmD[®] UV-SC, ArmD[®] NIR-SC

Silica fiber with silicone cladding

Armadillo's silica fibers with silicone cladding ensure low-attenuation transmission from UV to NIR wavelengths. They provide a cost-effective alternative to pure silica fibers that suits a wide range of applications, from remote illumination to spectroscopy.

Wavelength

ArmD [®] UV-SC	300 - 1100 nm
ArmD [®] NIR-SC	400 - 2200 nm

Numerical Aperture (NA)

Standard	0.40 ± 0.02
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Jacket:

ETFE (Tefzel [®]):	-40 to +150°C
Nylon:	-40 to +100°C
Acrylate:	-40 to +85°C
Acrylate DeSolite [®] DF-0009:	-40 to +150°C

Advantages

- High concentricity
- Step-index profile
- Biocompatible material
- Sterilizable using ETO and other methods



Technical data

Operating temperature	-40 to +150 °C
Core diameter	Available from 100 to 2000 μm
OH content	ArmD [®] UV-SC: high (<700 ppm) ArmD [®] NIR-SC: low (< 1 ppm)
Standard proof test	100 kpsi
Minimum bending radius	50 × cladding diameter (short-term mechanical stress) 150 × core diameter (during use with high laser power)

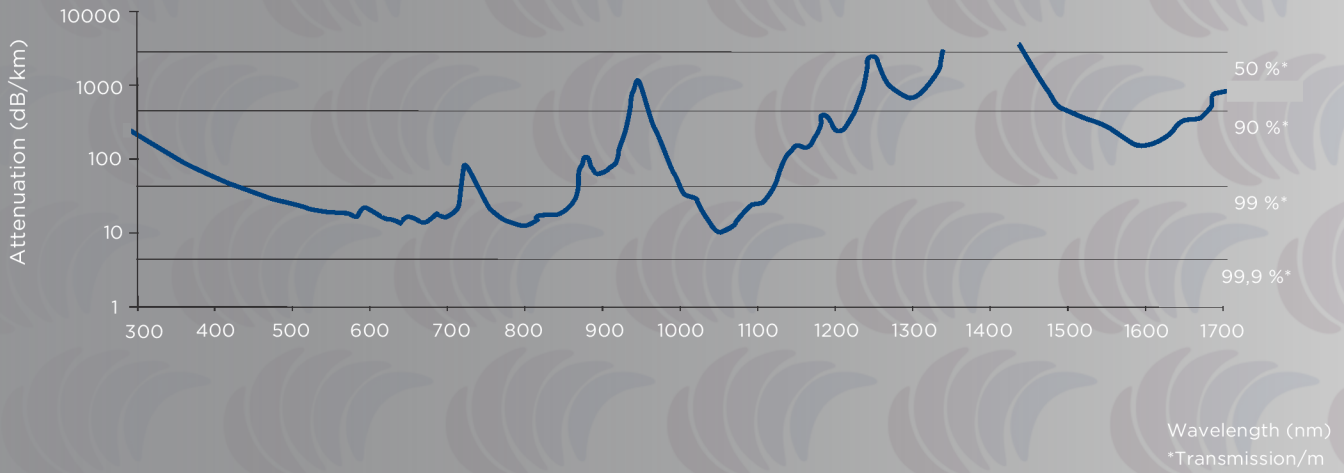


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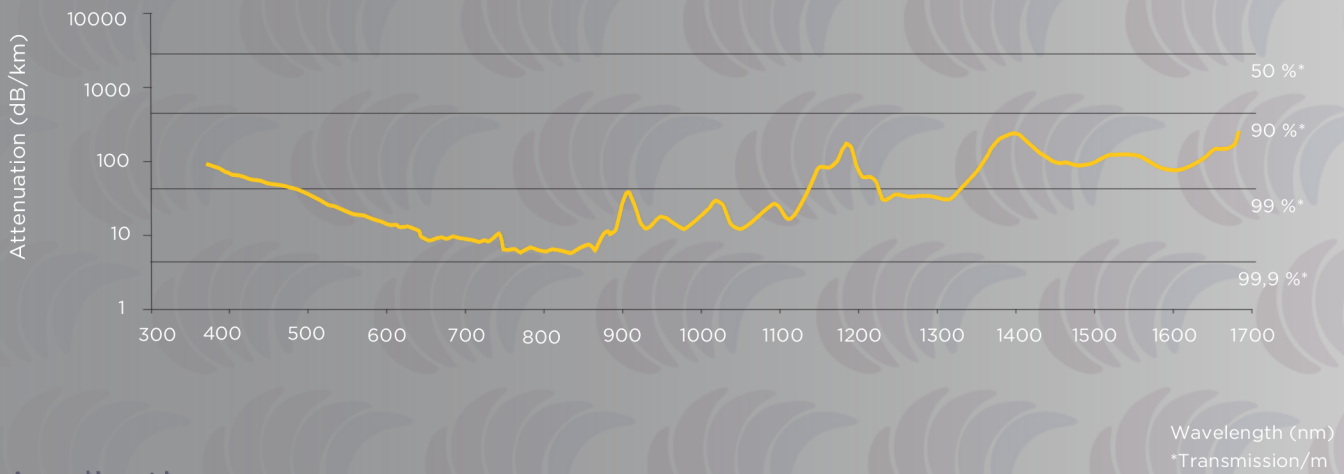
Attenuation values

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

ArmD® UV-SC



ArmD® NIR-SC



Applications

The preferred option for a range of applications, including remote illumination, spectroscopy, and more.



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