

# ArmD™ PUV, ArmD™ PWF

## Silica fiber with silicone cladding

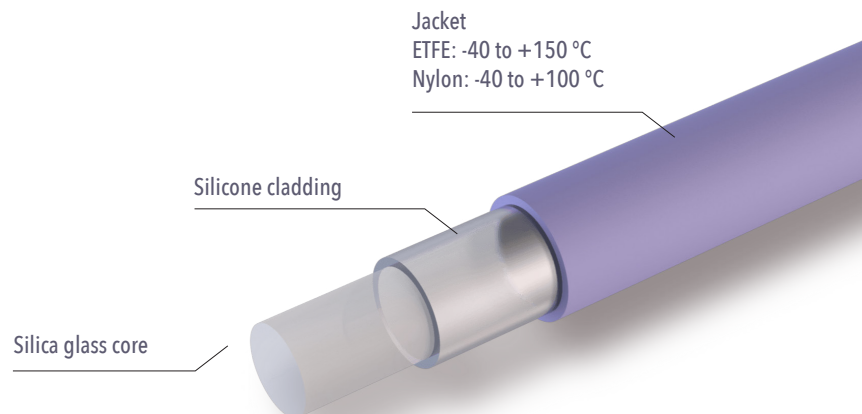
Armadillo's silica fibers with silicone cladding ensure low-attenuation transmission from UV to NIR wavelengths. They provide a cost-effective alternative to pure silica fibers that suits a wide range of applications, from remote illumination to spectroscopy.

Wavelength		Numerical aperture (NA)	
ArmD™ PUV / PW	350 - 2200 nm	Standard	0,40 ± 0,02

### Silicone Clad Cost-Effective Fiber

#### Advantages

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



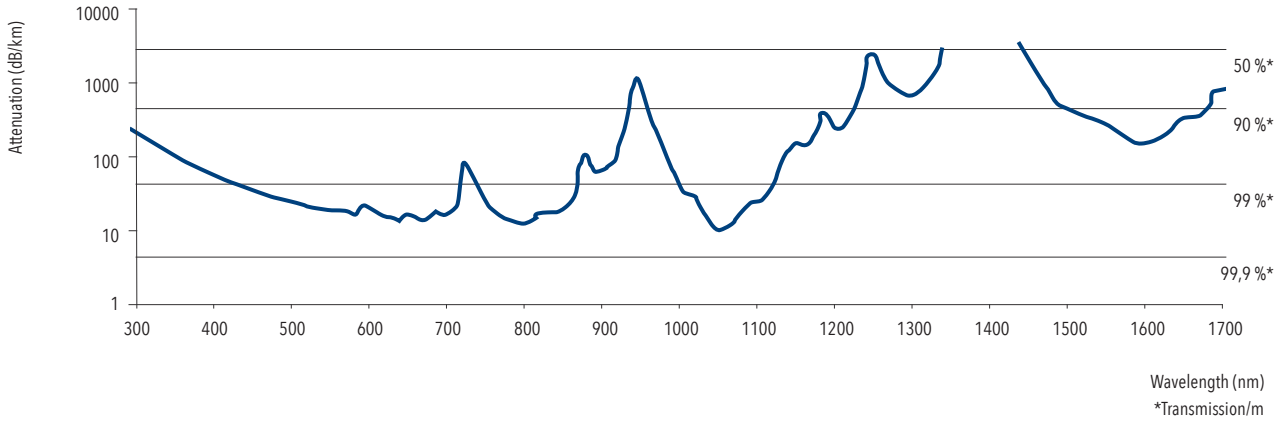
#### Technical data

Wavelength / spectral range	ArmD™ PUV and ArmD™ PWF: 350 - 2200 nm
Numerical aperture (NA)	0,40 ± 0,02
Operating temperature	-40 to +150 °C
Core diameter	Available from 100 to 2000 μm
OH content	ArmD™ PUV: high (> 700 ppm) ArmD™ PWF: 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)

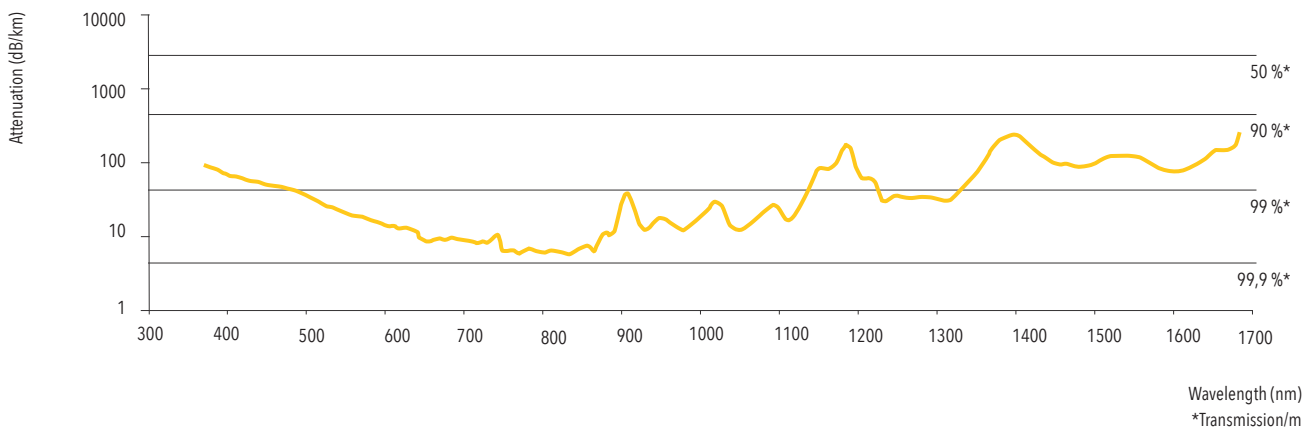
## Attenuation values

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

### ArmD™ Ultra PUV



### ArmD™ Ultra PWF



## Applications

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

1 2 3 4 5 6  
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Product code key using the example of WF 300/330 (H)(B)N (28)

- |                                   |   |
|-----------------------------------|---|
| 1 Fiber type                      | UV = ArmD™ UV   WF = ArmD™ WF   WFG = ArmD™ WFG   HUV = ArmD™ HUV   HWF = ArmD™ HWF   |
| 2 Standard core / cladding ratios | Core $\varnothing$ ( $\mu\text{m}$ ) / Cladding $\varnothing$ ( $\mu\text{m}$ )   |
| 3 Buffer                          | H = hard polymer buffer   No information = silicone buffer  |
| 4 Colour                          | B = black   BL = blue   W = white   Y = yellow   R = red   G = green   No information = transparent   |
| 5 Jacket material                 | A = acrylate jacket (no buffer)   F = PFA Fluon®   N = nylon jacket (silicone or hard polymer jacket)<br>T = ETFE jacket (silicone or hard polymer buffer)   P = polyimide jacket (no buffer) |
| 6 Numerical aperture (NA)         | 12 = 0,12   28 = 0,28   No information = 0,22 (standard)  |

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