

ArmD[®] Broadband (SR)

Silica/silica fibers for applications from UV-C to IR-B

Introducing ArmD[®] Broadband and Broadband SR by Armadillo: A remarkably low-loss solution optimized for wavelengths ranging from 200 nm to 2100 nm. This innovative fiber harnesses the combined properties of UV and NIR fibers, tailored for a spectrum of technical applications, including broad spectroscopy and precision Astronomy Instruments.

Wavelength

ArmD [®] Broadband	275 - 2100 nm
ArmD [®] Broadband - SR	200 - 2100 nm

Numerical Aperture (NA)

Standard	0.22 ± 0.02
or custom	

Jacketing Options:

Polyimide: -190 to +350°C
ETFE (Tefzel[®]): -40 to +150°C
Nylon: -40 to +100°C; Acrylate: -40 to +85°C
DuPont Hytrel[®] 7246: -40 to +140°C
Acrylate DeSolite[®] DF-0009: -40 to 150°C
PFA Fluon[®]: -200° to +260°C

Advantages

- Low losses @ range 200 nm - 2000 nm
- Any value of NA from 0,12 to 0,28 available upon request
- Very low NA expansion
- Biocompatible material
- Manufactured ISO 9001 compliant facility

Fluorine - doped silica cladding

Silica glass core

Technical data

Operating temperature	-65 to +300 °C
Core diameter	Available from 100 to 2000 μm
Standard proof test	100 kpsi
Minimum bending radius	50 × cladding diameter (short-term mechanical stress) 150 × core diameter (during use with high laser power)

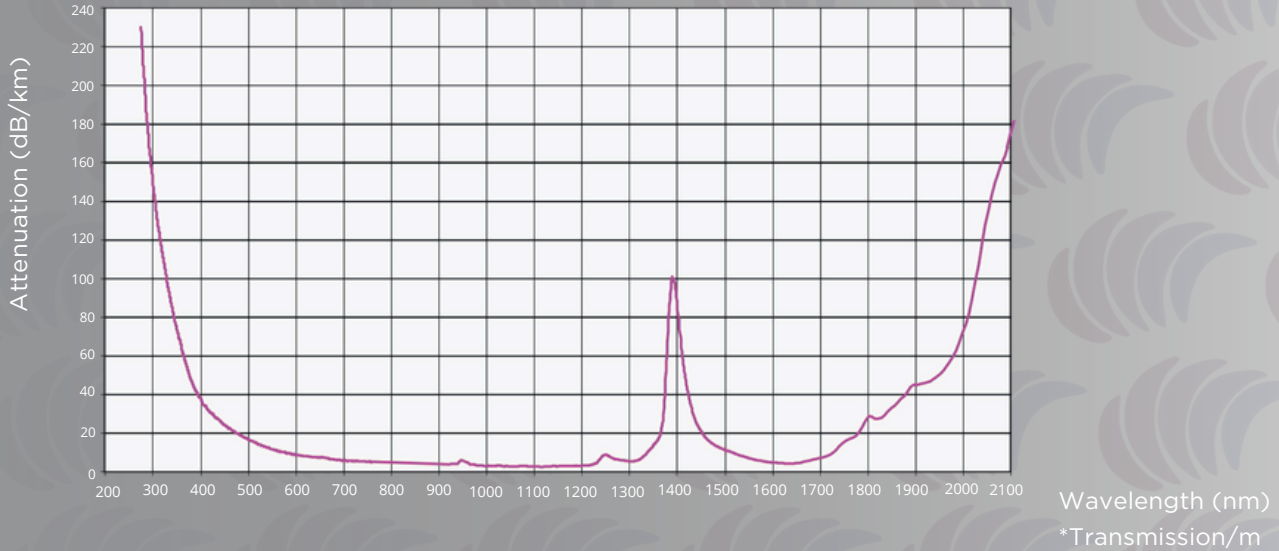


Scan to see more

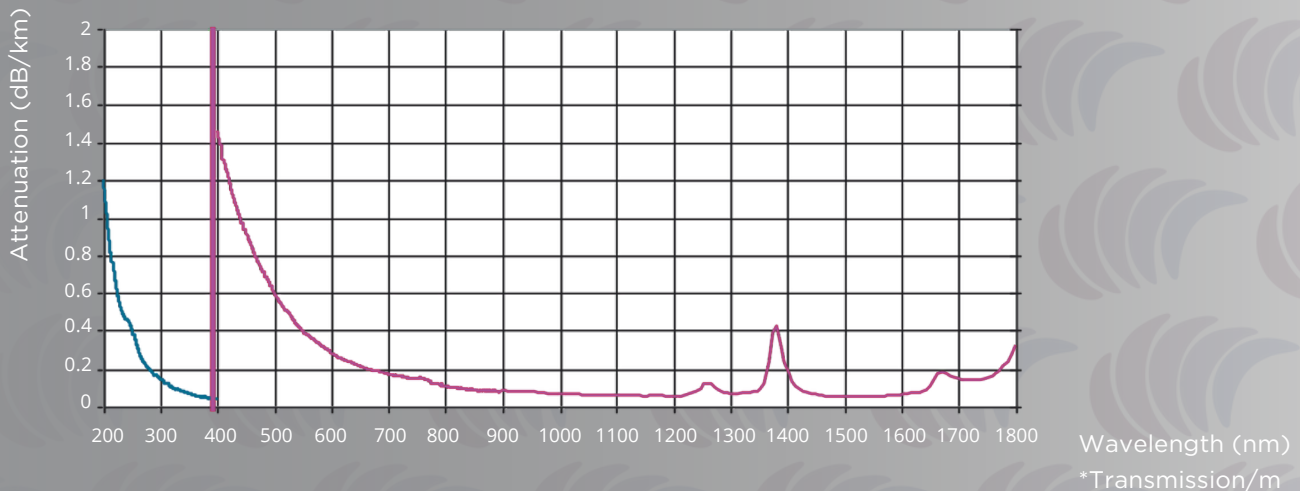
Attenuation values

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

ArmD® Broadband



ArmD® Broadband SR



Applications

Widely utilized across diverse fields such as spectroscopy, analytical instruments, sensing, astronomy, aerospace, avionics, military applications, and more, these versatile fibers consistently deliver exceptional performance.



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