

ArmD® MID-IR

Silver halide fiber

This unique fiber, which comprises a photosensitive compound (AgCl, AgBr), offers extremely low attenuation values in the mid-infrared (MIR) range.

Wavelength

ArmD® MID-IR 3 - 17 μm

Numerical Aperture (NA)

Low	$0,13 \pm 0,02$
Standard	$0,25 \pm 0,02$
High	$0,35 \pm 0,02$

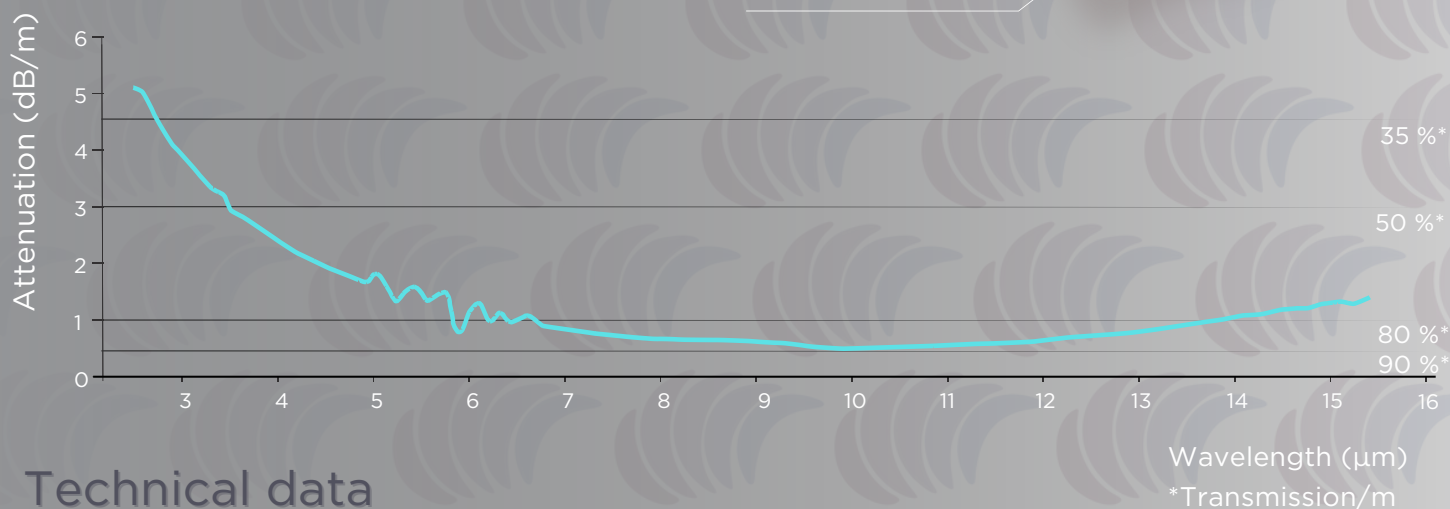
Advantages

- Optimized for CO- and CO₂-laser applications
- Low attenuation in the mid-infrared (MIR) range
- Robust and flexible
- Non-hydroscopic and Non-toxic material
- Available in core/cladding or pure core versions

Mixed silver halide cladding

Mixed silver halide core

Peek Tube



Technical data

Operating temperature	-273 to +140 °C
Standard diameter:	Core / cladding (μm) 240/300 μm 600 / 700 μm 900 / 1000 μm
Laser damage threshold	CW CO ₂ laser >12 kW/cm ²
Calculation index (core)	2,1
Reflective losses @ 10.6 μm	25%



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