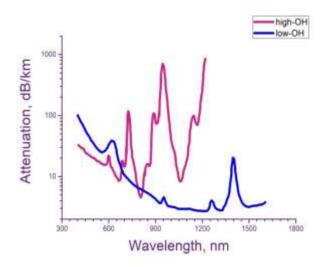
## SPECIALTY FIBER ALUMINUM COATED FIBERS

## HIGH OH STEP INDEX MULTIMODE SILICA FIBERS

## 1.06 CORE/CLAD RATIO

Aluminum-coated step index multimode optical fibers have all the benefits of silica-silica fibers. Additional significant improvements include increased mechanical strength and greater fatigue resistance compared to non-hermetic and polymer-clad fibers (PCS). Their transmittance covers a spectral range of 250 to 1200 nm, and also remains stable in corrosive chemicals that normally react to silica glass. The temperature range is from -196C to +400C.



## **FEATURES:**

- Greatly enhanced resistance to high power laser radiation.
- Higher core-to-clad ratio and enlarged NA optimized for coupling to high-energy lasers.
- Better fiber cooling due to the heat-conducting metal coating.
- Excellent mechanical strength and flexibility compared to polymer coated fibers.
- The metal coating can be soldered and will not outgas.

FIBER SPECIFICATIONS	OKM-200/212AL	OKM-400/424AL	OKM-600/636AL	OKM-800/848AL	OKM-1000/1060AL
Core diameter, µm	200 ± 4	400 ± 8	600 ± 12	800 ± 15	1000 ± 20
Clad diameter*, µm	212 ± 5	424 ± 12	636 ± 15	848 ± 20	1060 ± 40
Coating diameter, µm	260 ± 15	530 ± 25	830 ± 30	1060 ± 40	1350 ± 60
Attenuation at 800/1300nm (see grapf High OH)	The loss spectrum in the long wavelength region (>1 µm) is higher than that of the material	um in the avelength (>1 µm) is The loss spectrum is close to the material loss spectrum than that			
Wavelength range, nm (see grapf High OH)	250 ÷ 1100	00 250 ÷ 1200			
Fiber type	Multimode				
Index profile	Step				
Coating material	Aluminium				
Core material	Pure syntetic silica (High OH)				
Clad material	Doped silica				
Numerical Aperture (NA)	0.22 ± 0.02				
Short-term bending radius	60 times the fiber diameters				
Long-term bending radius	120 times the fiber diameters				
Proof test, kpsi	> 100				
Min operating temperature, °C	-196				
Max operating temperature, °C	400				

Other parameters are available on the request