

CorActive Active Single Clad Fibers

For Low-Power/High-Efficiency Lasers and amplifiers

CorActive offers one of the most extensive selection of active single clad fibers on the market. CorActive highly efficient specialty optical fibers are specifically designed to meet the needs of low-power laser and amplifier applications where high core absorption and high efficiency are required. CorActive offers several models of rare-earth doped single-clad fibers (PM and non-PM) in different optical and geometrical configurations.

ADVANTAGES

- Extensive product selection to suit most fiber laser and amplifier applications
- High absorption for reduced fiber length and non-linear effects
- High QCE values allows lower pump power requirements
- Custom products available upon request

APPLICATIONS

- Low-Power Lasers and Amplifiers
- Pre-amps/Seed Lasers
- Ultrafast Lasers
- Military
- Scientific/Research

SPECIFICATIONS

Material Specification

Core Material	Doped Silica Glass
Clad Material	Silica Glass
Coating Material	Acrylate

Geometrical and Mechanical Specifications

Coating Diameter	245 ± 15 ¹
Core/clad Concentricity Error (μm)	< 1
Proof Test Level (kpsi)	100 ²

¹ Unless otherwise specified. Consult product datasheet to verify exact coating dimensions of specific model

² Unless otherwise specified. Consult product datasheet to verify exact proof test level of specific model

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CorActive
Specialty Optical Fiber Manufacturer

STANDARD MODELS

Ytterbium (YB) Doped Single Clad Fibers							
Model	Core Diameter (μm)	Clad Diameter (μm)	MFD @ 1060nm (μm)	Core NA	Core Absorption @ 915nm (dB/m)	Birefringence	Note
YB 118	N/A	125 ± 1	4.0 ± 1.0	0.22 ± 0.02	80 ± 15	N/A	Photosensitive (high Ge content)
YB 401	N/A	125 ± 1	6.0 ± 1.0	0.14 ± 0.02	140 ± 25	N/A	Matched to HI 1060, Photodarkening-resistant Matched PM Version: YB 401-PM
YB 198	N/A	125 ± 1	4.0 ± 1.0	0.22 ± 0.02	275 ± 50	N/A	
YB 406	N/A	125 ± 1	5.0 ± 1.0	0.16 ± 0.02	600 ± 100	N/A	Photodarkening-resistant
YB 100	N/A	125 ± 2	5.0 ± 1.0	0.16 ± 0.02	10 ± 2	≥ 2.0E-04	PM
YB 401-PM	N/A	125 ± 1	6.0 ± 1.0	0.14 ± 0.02	140 ± 25	> 3.0E-04	Photodarkening-resistant, Matched Non-PM Version: YB 401

Erbium (ER) and Erbium/Ytterbium (EY) Doped Single Clad Fibers							
Model	Core Diameter (μm)	Clad Diameter (μm)	MFD @ 1550nm (μm)	Core NA	Core Absorption (dB/m)	Birefringence	Note
ER12-6	N/A	125 ± 0.5	6.5 ± 0.5	0.22	12 ± 2 @1530nm	N/A	
ER35-7-PM	N/A	125 ± 2	6.5 ± 0.5	0.22	35 ± 5 @1530nm	≥ 1.4E-04	
EY 305	N/A	125 ± 1	7.0 ± 1.0	0.18	120 ± 20 @915nm	N/A	Photosensitive, Confined ¹


Thulium (TM) Doped Single Clad Fibers							
Model	Core Diameter (μm)	Clad Diameter (μm)	MFD (μm)	Core NA	Core Absorption @ 790nm (dB/m)	Birefringence	Note
SCF-TM-8/125	8.0 ± 1.0	125 ± 1	N/A	0.17 ± 0.01	13 ± 2 @1567nm	N/A	

Neodyme (ND) Doped Single Clad Fibers							
Model	Core Diameter (μm)	Clad Diameter (μm)	MFD (μm)	Core NA	Core Absorption near 805nm (dB/m)	Birefringence	Note
ND 103	5.0 ± 0.5	125 ± 1	N/A	0.14 ± 0.02	> 35	N/A	
ND 103-PM	5.0 ± 1.0	125 ± 2	N/A	0.12 ± 0.02	> 40	≥ 2.0E-04	

Thulium/Holmium (TH) Doped Single Clad Fibers							
Model	Core Diameter (μm)	Clad Diameter (μm)	MFD	Core NA	Core Absorption near 790nm (dB/m)	Birefringence	Note
TH 512	6.0 ± 1.0	125 ± 2	N/A	0.12 ± 0.01	> 120	N/A	



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