



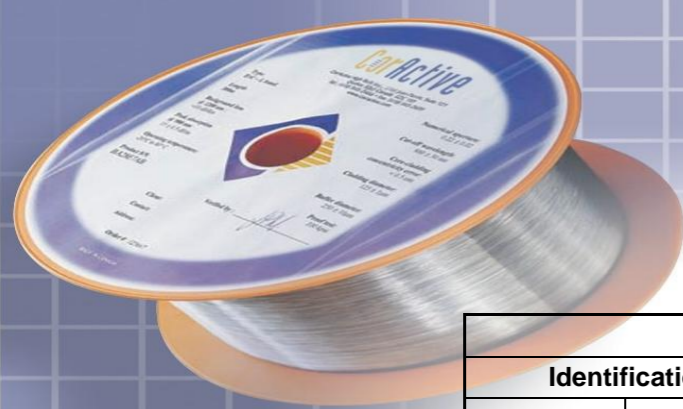
Specialty Optical Fiber  
Manufacturer

## Single-Clad Rare-Earth Doped Silica Fibers Thulium & Thulium-Holmium - Samarium – Neodimium - Terbium/Ytterbium



Thulium									
Identification		Optical properties				Physical characteristics			
Product number	Description	Numerical aperture (eff)	Cut-off wavelength	Peak absorption near 790 nm	Losses	Core diameter	Cladding diameter	Coating diameter	Screen proof tested
<b>Tm 134</b>	Thulium Single mode	0.16 ± 0.02	700 - 800 nm	≥ 30 dB/m	≤ 230 dB/km @ 860 nm	3.0 ± 0.5 μm	124.7 ± 1.0 μm	250.0 ± 15.0 μm	≥ 50 kpsi

Thulium and Thulium-Holmium										
Identification		Optical properties					Physical characteristics			
Product number	Description	Numerical aperture (eff)	Cut-off wavelength	Peak absorption near 790 nm	Peak absorption near 1212 nm	Losses @ 1350 nm	Core diameter	Cladding diameter	Coating diameter	Screen proof tested
<b>TH 550</b>	Thulium - Holmium Single mode	0.14 ± 0.02	1450 - 1550 nm	≥ 100 dB/m	≥ 10 dB/m	TBD	11.5 ± 1.0 μm	125.0 ± 1.0 μm	250.0 ± 15.0 μm	≥ 50 kpsi
<b>TH 512</b>		0.16 ± 0.02	1650 - 1750 nm	≥ 150 dB/m	≥ 120 dB/m	≤ 300 dB/km	9.0 ± 1.0 μm	124.7 ± 1.0 μm		
<b>TH 530</b>		0.18 ± 0.02	1500 - 1600 nm	≥ 140 dB/m	≥ 65 dB/m	≤ 750 dB/km	6.0 ± 1.0 μm			
<b>TH 540</b>			1700 - 1800 nm	≥ 150 dB/m	≥ 80 dB/m	≤ 350 dB/km	8.0 ± 1.0 μm			



Samarium									
Identification		Optical properties				Physical characteristics			
Product number	Description	Numerical aperture (eff)	Cut-off wavelength	Peak absorption near 1458 nm	Losses @ 1200 nm	Core diameter	Cladding diameter	Coating diameter	Screen proof tested
Sm 119	Samarium Single mode	0.14 ± 0.02	1075 - 1175 nm	≥ 15 dB/m	≤ 140 dB/km	6.5 ± 1.0 μm	124.7 ± 1.0 μm	250.0 ± 15.0 μm	≥ 50 kpsi
Sm 633			≤ 633 nm	≥ 15 dB/m (Estimated)	≤ 140 dB/km (Estimated)	3.0 ± 1.0 μm	125.0 ± 1.0 μm		≥ 100 kpsi

Neodimium									
Identification		Optical properties				Physical characteristics			
Product number	Description	Numerical aperture (eff)	Cut-off wavelength	Peak absorption near 805 nm	Losses @ 1060 nm	Core diameter	Cladding diameter	Coating diameter	Screen proof tested
Nd 201	Neodymium Single mode	0.10 ± 0.02	850 - 950 nm	≥ 15 dB/m	≤ 5 dB/km	7.0 ± 1.0 μm	124.7 ± 1.0 μm	250.0 ± 15.0 μm	≥ 50 kpsi
Nd 001			0.14 ± 0.02	800 - 900 nm	≥ 0.1 dB/m	≤ 25 dB/km			
Nd 102		750 - 850 nm		≥ 10 dB/m	≤ 10 dB/km	5.0 ± 0.5 μm			
Nd 103			≥ 35 dB/m	≤ 75 dB/km	6.0 ± 1.0 μm	125.0 ± 2.0 μm			
Nd 109		850 - 950 nm	≥ 70 dB/m	≤ 20 dB/km @ 1290 nm		124.7 ± 1.0 μm	250.0 ± 15.0 μm		
Nd 121		1000 - 1100 nm	≥ 200 dB/m	≤ 75 dB/km					
Nd 009		0.18 ± 0.02	750 - 850 nm	≥ 8 dB/m	≤ 10 dB/km	4.0 ± 0.5 μm	124.7 ± 1.0 μm		
Nd 100				≥ 1.5 dB/m					
Nd 107				≥ 70 dB/m	≤ 125 dB/km @ 1100 nm	125.0 ± 2.0 μm			
Nd 127				≥ 350 dB/m	≤ 45 dB/km @ 1200 nm				
Nd 150				≥ 500 dB/m	≤ 10 dB/km @ 1200 nm	3.0 ± 0.5 μm	124.7 ± 1.0 μm		



Neodimium										
Identification		Optical properties					Physical characteristics			
Product number	Description	Numerical aperture (eff)	Cut-off wavelength	Peak absorption near 805 nm	Beat length	Losses	Core diameter	Cladding diameter	Coating diameter	Screen proof tested
<b>Nd 515</b>	Neodymium Single mode and Polarization maintaining	0.22 ± 0.02	850 - 950 nm	≥ 10 dB/m	≤ 8 mm @ 1064 nm	≤ 95 dB/km @ 1293 nm	4.5 ± 0.5 μm	124.7 ± 1.0 μm	250.0 ± 15.0 μm	≥ 50 kpsi

Neodimium								
Identification		Optical properties			Physical characteristics			
Product number	Description	Numerical aperture (Maximum)	Peak absorption near 805 nm	Losses	Core diameter	Cladding diameter	Coating diameter	Screen proof tested
<b>Nd 507</b>	Neodymium Multimode	0.14 ± 0.02	≥ 70 dB/m	≤ 20 dB/km @ 1200 nm	30.0 ± 1.0 μm	124.7 ± 1.0 μm	250.0 ± 15.0 μm	≥ 50 kpsi
<b>Nd 509</b>			≥ 60 dB/m	≤ 175 dB/km @ 1040 nm	28.0 ± 1.0 μm			
<b>Nd 529</b>			≥ 250 dB/m	≤ 30 dB/km @ 1150 nm	25.0 ± 1.0 μm			
<b>Nd 531</b>			≥ 250 dB/m	≤ 75 dB/km @ 1150 nm		125.0 ± 2.0 μm		
<b>Nd 523</b>		0.22 ± 0.02	≥ 200 dB/m	≤ 100 dB/km @ 1200 nm	12.0 ± 1.0 μm	124.7 ± 1.0 μm		

Terbium - Ytterbium									
Identification		Optical properties				Physical characteristics			
Product number	Description	Numerical aperture (eff)	Cut-off wavelength	Peak absorption near 976 nm	Losses @ 1200 nm	Core diameter	Cladding diameter	Coating diameter	Screen proof tested
<b>TY 150</b>	Terbium-Ytterbium Single mode	0.18 ± 0.02	650 - 750 nm	≥ 350 dB/m	≤ 30 dB/km	4.0 ± 0.5 μm	125.0 ± 2.0 μm	250.0 ± 15.0 μm	≥ 50 kpsi

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