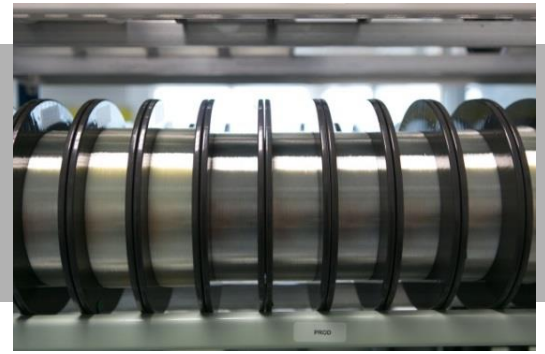
Tm, Ho and and Tm/Ho Doped
Fibers

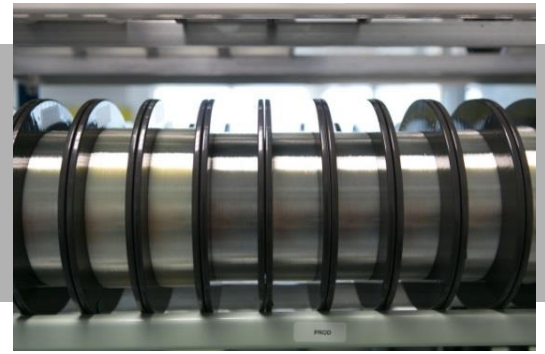


- **Main Specifications for single clad Fiber**

Product Name	Core diameter (µm)	Core absorption (dB/m)	Core absorption dB/m	Core NA (+/-0.02)	Cladding diameter (µm)	Coating diameter (µm)
IXF-TDF-4-125	4 +/- 1	> 150 @ 793 nm	> 35 @ 1180 nm	0.27	125 +/- 2	245 +/- 15
IXF-HDF-8-125	8 +/- 1	> 2.5 @ 890 nm	> 15 @ 1150 nm	0.16	125 +/ - 2	245 +/- 15
IXF-HDF-PM-8-125	8 +/- 1	> 2.5 @ 890 nm	> 15 @ 1150 nm > 6 @ 2050nm	0.16	125 +/ - 2	245 +/- 15
IXF-HDF-PM-20-250-0.08	20 +/ -2	> 4 @ 890 nm	> 24 @ 1150 nm > 10 @ 2050nm	0.08	250 +/- 2	340 +/- 20

- Low OH water content : < 0.1 ppm
- Associated Passive Fiber
- Custom Specifications on request
- PM fiber: Round shape & PANDA type, birefringence >2.10^{-4}

Tm, Ho and and Tm/Ho Doped
Fibers



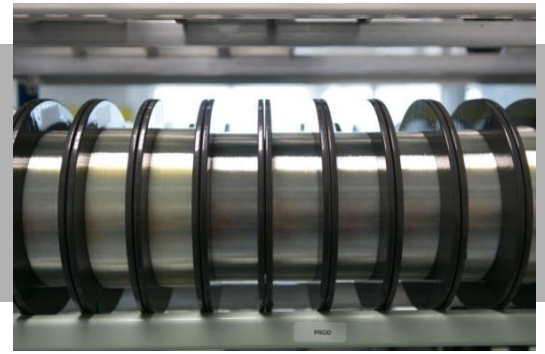
- **Main Specifications for double clad fibers**

Product Name	Core diameter (µm)	Clad absorption around @789 nm (dB/m)	Clad absorption @1180 nm (dB/m)	Core NA (+/-0.02)	Cladding diameter (µm)	Coating diameter (µm)
IXF-2CF-Tm-O-6-130	6 +/- 1	> 3.3	> 0.6	0.22	125 +/- 2	245 +/- 15
IXF-2CF-Tm-O-10-130	10 +/- 2	> 5.6	> 1	0.14	125 +/- 2	245 +/- 15
IXF-2CF-Tm-O-20-250	20 +/- 2	> 3.3	> 0.6	0.09	250 +/- 2	360 /- 20
IXF-2CF-Tm-O-25-300	25 +/- 2	> 3.3	> 0.6	0.09	300 +/- 10	460 /- 20
IXF-2CF-Tm-PM-6-130	6 +/- 1	> 3.3	> 0.6	0.22	125 +/- 2	245 +/- 15
IXF-2CF-Tm-PM-25-300	25 +/- 2	> 3.3	> 0.6	0.09	300 +/- 10	460 /- 20
IXF-2CF-TmHo-O-6-130	6 +/- 1	> 3.3	> 0.6	0.22	125 +/- 2	245 +/- 15
IXF-2CF-TmHo-PM-6-130	6 +/- 1	> 3.3	> 0.6	0.22	125 +/- 2	245 +/- 15
IXF-2CF-TmHo-PM-25-300	25 +/- 2	> 5.6	> 1	0.09	300 +/- 10	460 /- 20

- Low OH water content : < 0.1 ppm
- Associated Passive Fiber
- Custom Specifications on request
- PM fiber: Round shape & PANDA type, birefringence >2.10^{-4}
- Tm/Ho atomic Ratio = 10

Tm, Ho and and Tm/Ho Doped

Fibers



Cross Section files

Parameters	specification	unit
Core Diameter :	25	µm
Equivalent Cladding Diameter :	400	µm
MM absorption @ 789nm :	4,1	dB/m
Theor. Absorption Cross Section @ 789nm	8,50E-25	m2
Theor. Absorption Cross Section @ 793nm	4,80E-25	m2
Absorption Cross Section @ 1064nm	1,26E-26	m2
Absorption Cross Section @ 1180nm	1,50E-25	m2
Absorption Cross Section @ 1560nm	1,55E-25	m2
Absorption Cross Section @ 1640nm	4,50E-25	m2
Calculated SingleMode Abs @ 1064nm :	15	dB/m
Calculated SingleMode Abs @ 1180nm :	184	dB/m
MultiMode Abs @ 1064nm :	0,06	dB/m
MultiMode Abs @ 1180nm :	0,72	dB/m
MultiMode Abs @ 1560nm :	0,70	dB/m
Estimated Concentration (1ppm: 8E21 At/m3)		
Thulium Concentration	2,8E+26	ions/m3
Thulium Concentration	3,5	% wt tm3+
Thulium Concentration	4,1	%wt Tm2O3