



## Discover our range of **rare earth doped single mode fibers**:

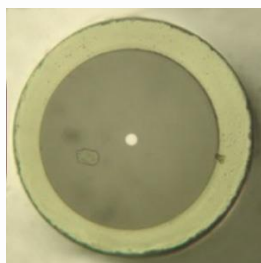
Thanks to their high RE solubility (up to 100 000 ppm) and low phonon energy, our fluoride fibers offer dozens of active transitions, enabling a broad range of application possibilities **from visible to the midinfrared**.

We have a large stock of various designs of ZFG or IFG RE doped single mode fibers.

Dopants: Dy, Ho, Tm, Er, Pr, Nd, Sm, Yb...

Co-doping: Er/Yb, Pr/Yb, Tm/Yb, Tm/Dy, Ce/Tm....

### Examples of some applications



Rare earth	Molar content (ppm)	Øcore/clad (µm)	λc (*) (µm)	Applications (realizations obtained by research labs)
Tm	1000	4/125	0.37	0.5 W CW laser at 785 nm
Tm	2000	2.9/125	0.87	2.25 W CW laser at 1480 nm TDFA (Thullium Doped Fiber Amplifier)
Dy	2000	12.5/125	2.6	142 mW CW yellow laser 10.1 W CW laser at 3.24 µm Tunable laser from 2.8 up to 3.4 µm Emission at 4.3µm
Ho	5000	7.5/125	2.4	650 mW CW laser at 2.95 µm

(\*) cut-off wavelength

### Standard rare earth doped fiber prices

Fiber type	Specifications	Price/m
ZFG single mode fiber	Øclad = 125 µm	from 220 €
IFG single mode fiber	Øclad = 125 µm	from 300 €

### CUSTOMIZE your own single mode doped fiber



- Doping/co-doping (rare earth, molar content)
- Cut-off wavelength
- NA (from 0.06 to 0.35 (ZFG), 0.18 to 0.32 (IFG))
- Core size (from 1 µm)

LVF proposes also a large variety of **protective tubings** and **connectors** as add-ons to your fiber.  
Do not hesitate to contact us for advice.

