

Discover our range of **rare earth doped double cladding 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 ZFG or IFG RE doped double cladding fibers. Most of them exhibit a double D-shape on the first cladding in order to improve the pump absorption.

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



Examples of some applications

LE VERRE FLUORÉ

Molar content (ppm)	Øcore/clad (μm)	λc (*) (μm)	Applications (realizations obtained by research labs)
70 000 ppm	15/240*260/290 μm (also available as PM)	2.5 μm	41 W CW laser at 2.94 μm
10 000 ppm	16.5/240*260/290 μm	2.7 μm	5.6 W CW at 3.55 μm
30 000 ppm	13/115*125/190 μm	2.2 μm	Laser at 2.3 µm
3000 ppm 20000 ppm	5/125/200 μm	1.3 µm	Visible emission at 491, 520, 535 and 620 nm
8 000 ppm	7.5/115*125/180 μm	0.78 µm	Red laser around 635 nm
	content (ppm) 70 000 ppm 10 000 ppm 30 000 ppm 3000 ppm 20000 ppm	content (ppm)Øcore/clad (μm)70 000 ppm15/240*260/290 μm (also available as PM)10 000 ppm16.5/240*260/290 μm30 000 ppm13/115*125/190 μm3000 ppm5/125/200 μm	content (ppm)Øcore/clad (μm)λc (*) (μm)70 000 ppm15/240*260/290 μm (also available as PM)2.5 μm10 000 ppm16.5/240*260/290 μm 13/115*125/190 μm2.7 μm30 000 ppm13/115*125/190 μm2.2 μm3000 ppm5/125/200 μm1.3 μm

(*) cut-off wavelength

Standard rare earth doped fiber prices

Fiber type

Specifications

ZFG double cladding double D-shape Erdoped fiber Øcore/1st clad/2ndclad = 15/240*260/290 μm (λc = 2.2 μm)

600€

Price/m

CUSTOMIZE your own RE doped double cladding fiber



- Doping/co-doping (rare earth, molar content)
- Cut-off wavelength (single mode)
- NA (single mode)
- Core size (\geq 1 μm (single mode), up to 1000 μm (multimode)

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.



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