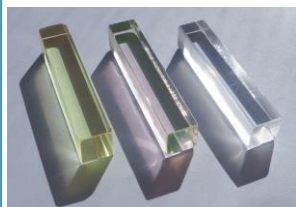


## Discover our range of **bulk fluoride glasses**:

LVF can provide any kind of bulk fluoride glasses such as parallelepipeds, ribbons, rods or tubes, prisms... Those bulks can be **homogeneously doped or co-doped with rare earths** (Er, Pr, Ho, Tm, Dy, Ho/Tm, Er/Pr, Pr/Yb...) depending on your requirements.

### Typical bulk specifications

Rare earth concentration Up to 100 000 ppm +/- 100 ppm



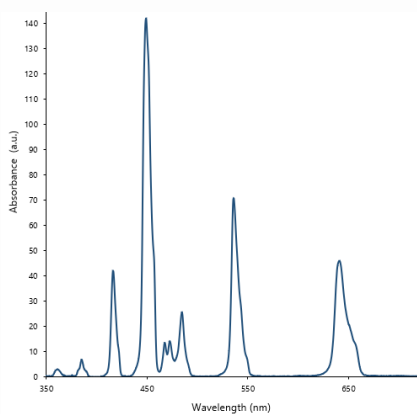
POLISHING	STANDARD GRADE	HIGH GRADE
Thickness tolerance	+/- 100 $\mu\text{m}$	+/- 10 $\mu\text{m}$
Width tolerance	+/- 200 $\mu\text{m}$	+/- 50 $\mu\text{m}$
Surface roughness (*)	70 Angström RMS	50 Angström RMS
Defects in polished surface (*)	-	20/10 Scratch/Dig

(\*) other grades available upon request

## Applications

Our bulk fluoride glasses can be used as robust **fluorescent solid-state dye**, **wavelength reference material**, **light converter**, as well as for glass science, study of specific properties of fluoride glasses, in **UV**, **visible** and **mid-infrared** ranges.

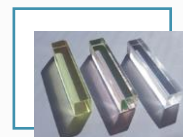
Ex.: calibration/detection of UV sources with visible sensors (UV to VIS light conversion), detection of NIR sources (NIR to VIS light conversion), calibration of spectrometers and imagers (spectral calibration: fluorescence or absorption spikes at specific wavelengths)



Ground state absorption of Ho<sup>3+</sup> ion in ZBLAN glass bulk (wavelength reference material)

### CUSTOMIZE

your own bulks or ribbons



#### Specifications

- Doping/ co-doping
- Shape/size
- Polishing grade

#### Fluorescence and wavelength calibration

If you have a special request, please contact our experts!

