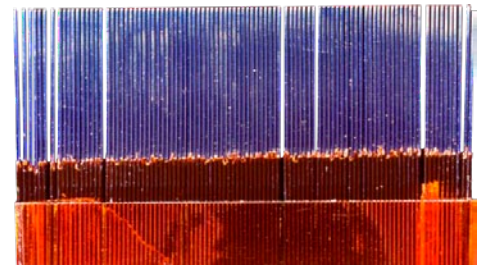


# Metallizations, Filters & AR

## Description:

SEDI-ATI has developed an extensive know-how to obtain thin film deposition directly on a fiber optic end (Electron Beam Evaporation System) and so can offer a broad range of standard or custom designed products:

- AR coating (Anti Reflexion) with single band, dual band (1310/1550) or broad band
- Dichroic filters: Hi pass, low pass.
- Reflective coating: metallic layer on fiber end for total reflexion.
- Metallized fiber: for hermetic feedthrough or brazing.



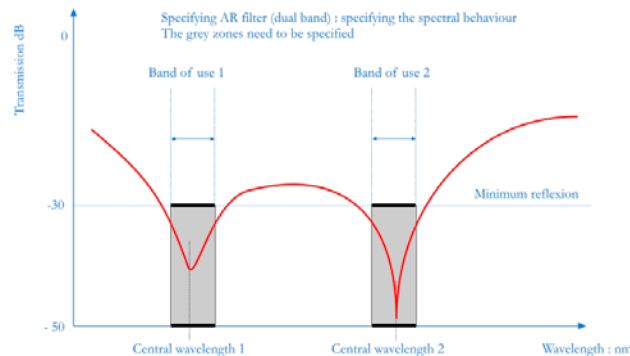
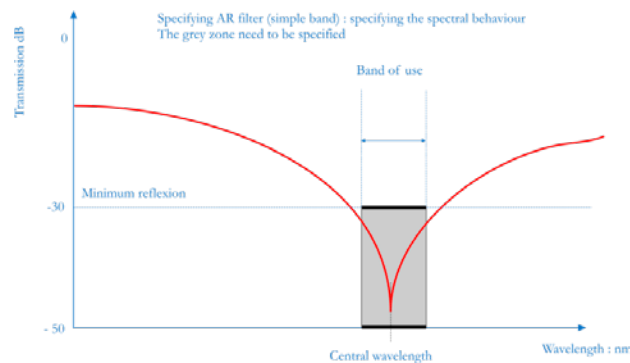
All these products can be made on a large variety of fibers from single mode to large core fibers..

## Specifications:

Typical materials used for evaporation range from:

- HfO<sub>2</sub>, SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub> for AR coatings.
- ZnSe, YF<sub>3</sub>, ZnF<sub>2</sub>, TiO<sub>2</sub>, or SiO<sub>2</sub>, for dichroic filters.
- Ag/Cr, Al/Cr, TiO<sub>2</sub>/SiO<sub>2</sub>, HfO<sub>2</sub>/SiO<sub>2</sub> for reflective coatings.
- Ti/Au, Ti/Ni/Au for metallization

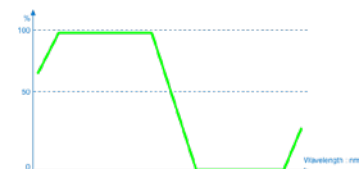
AR Coating :



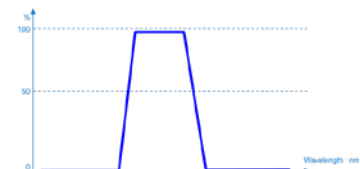
Filters :



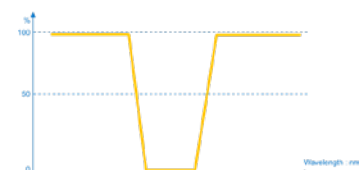
Hi pass filter



Low pass filter



Band pass filter



Band cut filter