

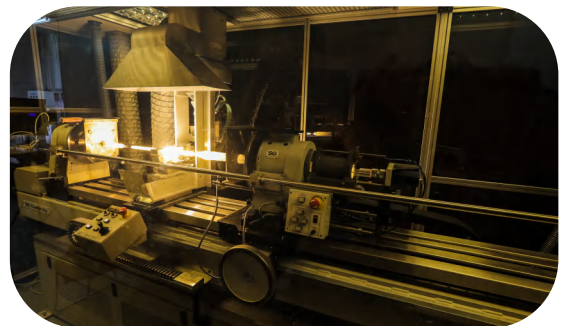
# Thulium-doped Double Cladding Fiber

## Product Description

Double cladding Tm-doped fiber is composed of optimized fiber preparation process and high-performance glass. The fiber is an active fiber used in 2 $\mu$ m band fiber lasers and fiber amplifiers, and has the characteristics of high absorption coefficient and high light conversion efficiency of 793 nm pump. It can be widely used in plastics processing, medicine and scientific research.

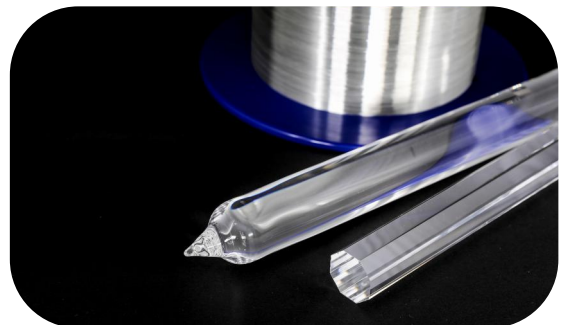
## Features

- ⊙ High precision geometry control
- ⊙ High 793 nm pump laser slope efficiency
- ⊙ Reliable stability in high temperature and high humidity environments



## Applications

- ⊙ Plastics processing, medicine and scientific research
- ⊙ Continuous/pulsed fiber lasers and amplifiers





## Specifications

### Optical Specifications

Part Number	TDF-10/130-DC	TDF-25/400-DC
Operating wavelength (nm)	1900-2100	1900-2100
Core NA	0.15±0.01	0.09±0.01
Cladding NA	≥0.46	≥0.46
Cladding absorption (dB/m@793 nm)	3.0±0.5	2.0±0.5
Core attenuation (dB/km@860 nm)	≤15.0	≤15.0

### Geometric and Mechanical Specifications

Core diameter (μm)	10.0±1.0	25.0±1.5
Cladding diameter (μm)	130.0±2.0	400.0±5.0
Coating diameter (μm)	245.0±10.0	540.0±10.0
Concentricity (μm)	≤ 1.0	≤2.0
Coating materials	Low index Acrylate	Low index Acrylate
Proof test level (kpsi)	≥ 100	≥ 100