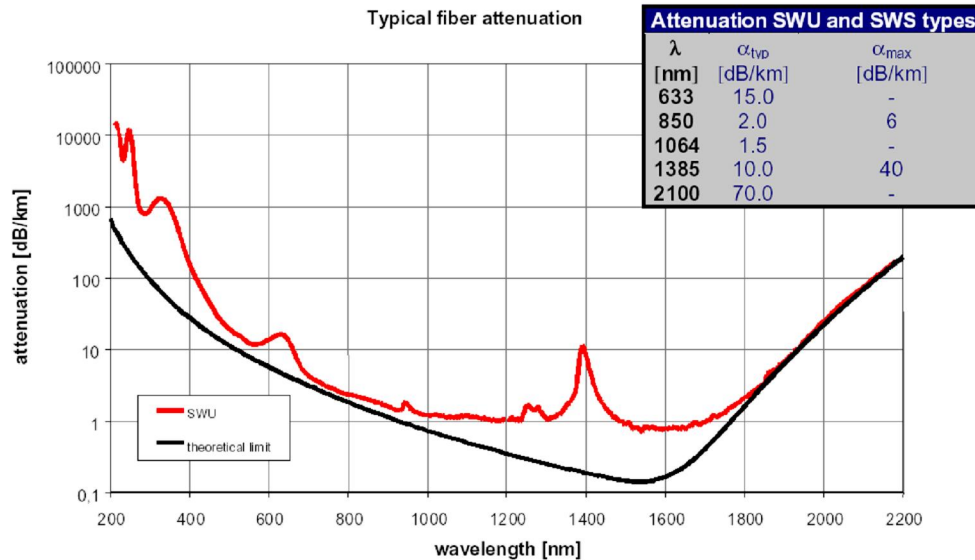


Oplatek FO SWU 1.2 fibers are best suited for VIS-NIR range of spectrum. The low hydroxyl-ion content along with fluorine doped cladding provides this fiber with excellent transmission and high laser damage resistance for NIR applications. Included applications are petroleum chemistry, food processing industry, pulp and paper testing equipment, remote spectroscopy and laser delivery systems. This fiber has transmission up to 2500 nm. For high temperatures, a polyimide coating is recommended (-190 to +500 C).

Optical characteristics UNIT	Specified value
Numerical aperture -	0.22
Fiber transmission curve:	



Geometrical characteristics

Fiber ID	Core diameter m	Cladding diameter m	Coating diameter m
SWU 1.4 65/90 um	65	90	220
SWU 1.4 90/125 um	90	125	245
SWU 1.2 75/90 um	75	90	220
SWU 1.2 105/125 um	105	125	245
SWU 1.1 200/220 um	200	220	270
SWU 1.1 400/440 um	400	440	600
SWU 1.1 600/660 um	600	660	800

Mechanical and environmental characteristics

Temperature resistance -40..+80 C longterm -40..+80 C shortterm type A (Acrylate).
 . 40..+150 C longterm -40..+200 C shortterm type B (Acrylate).
 -80..+380 C longterm -190..+500 C shortterm type C (Polyimide)

Minimum bending radius 200 times radius of the fiber shortterm.
 400 times radius of the fiber longterm.