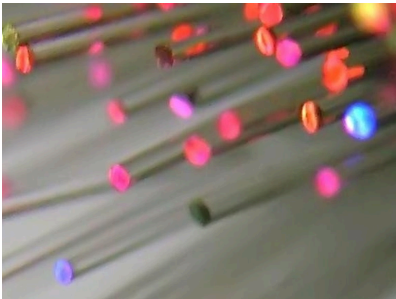


Power Delivery Preforms (UV / IR)

Specification Datasheet · TopRays Quartz Materials

Our UV fused silica rod is free from inclusions and bubbles and performs reliably. It offers the best laser durability, refractive index homogeneity and stability under thermal conditions and stress. The rod is highly homogeneous and shows no striations along its functional length. Typical applications are optical elements such as lenses, windows, wafers and optical fibers.



UV Preform · Description

Our UV fused silica rod is free from inclusions and bubbles and performs reliably. It offers the best laser durability, refractive index homogeneity and stability under thermal conditions and stress. The rod is highly homogeneous and shows no striations along its functional length. Typical applications are optical elements such as lenses, windows, wafers and optical fibers.

UV Preform · Specifications (CCDR 1.10)

Parameter	Specified value
Wavelength	200~700 nm
OH content	800~1000 ppm
Outer diameter	30.0±0.5 mm
Preform non-circularity	≤2.0 %
Core NA	0.22 ± 0.02
Typical preform length	500-1000 mm
CCDR	1.10±0.015
Core material	Highly hydroxy pure quartz
Cladding material	Fluorine-doped quartz

UV Preform · Specifications (CCDR 1.19)

Parameter	Specified value
Wavelength	200~700 nm
OH content	800~1000 ppm
Outer diameter	25.0~28.0 mm
Diameter variation of a single rod	≤1.0 mm

Parameter	Specified value
Preform non-circularity	$\leq 2.0\%$
Core NA	0.22 ± 0.02
Typical preform length	500-1000 mm
Bow curvature (mm/m)	≤ 0.5
CCDR	1.190 ± 0.015
Core material	Highly hydroxy pure quartz
Cladding material	Fluorine-doped quartz

Exterior Requirements

Bright spots: no bright spots larger than 0.5 mm; 0.2–0.5 mm: ≤ 5 , below 0.2 mm: negligible; no dense bright spots.
 Bubbles: count ≤ 2 , bubbles ≤ 0.2 mm are negligible. Scratches: no serious scratches.

IR Preform · Description

Our IR fused silica rod performs reliably. It offers the best laser durability, refractive index homogeneity and stability under thermal conditions and stress. The rod is highly homogeneous and shows no striations along its functional length. Typical applications are optical elements such as optical fibers, lenses and windows.

IR Preform · Specifications (CCDR 1.1)

Parameter	Specified value
Preform model	CCDR 1.1
Wavelength	600~1600 nm
Outer diameter	30.5 ± 0.5 mm
Cladding non-circularity	$\leq 2.0\%$
Core non-circularity	$\leq 3.0\%$
Core-cladding concentricity error	≤ 0.2 mm
Core NA	0.22 ± 0.02
Typical preform length	500-1000 mm
CCDR	1.100 ± 0.015
Core material	Low-OH pure quartz
Cladding material	Fluorine-doped quartz
Core attenuation @915 nm	≤ 5 dB/km
Core attenuation @630 nm	≤ 30 dB/km

IR Preform · Exterior Requirements

Bright spots: no bright spots larger than 0.5 mm; 0.2–0.5 mm: ≤ 5 , below 0.2 mm: negligible; no dense bright spots.

Bubbles: count ≤ 2 , bubbles ≤ 0.2 mm are negligible. Scratches: no serious scratches.