j-Plasil Rods

j-Plasil glasses are high-performance glasses for a high transmission from VIS to IR range especially optimized for the near IR range. Because of their ideal adjusted OH-content they show excellent features in this spectral range with simultaneous reduction of unintended glass defects.

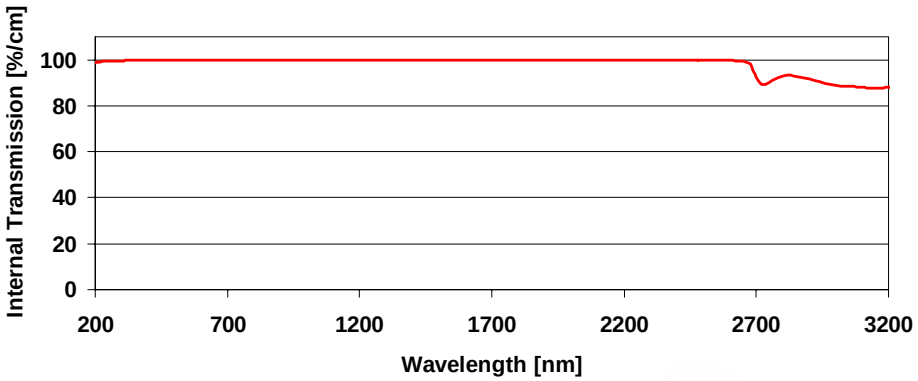
Features

- Operating range: VIS, NIR and IR, optimized for the near NIR range
- Undoped synthetical silica glass with high homegeneity
- Low OH-content

Process Method

j-Plasil Rods are manufactured by using the j-plasma Plasma Based Deposition (PBD) process. Within the plasma environment a silicon source chemically reacts with oxygen at an extremely high temperature. The high temperature plasma causes a chemical deposition process which provides a high homogeneity in the deposited layers. Under the extreme heat of several thousand degrees Kelvin unwanted contaminants are being eliminated leaving silica glass of highest quality.

Typical transmission of j-Plasil Rods:
(10 mm path length)



Specification

		Spec. Values	Unit
Refractive index	at 633 nm	1,4570 ± 0,0001	
Composition		SiO_2	
OH-content		3 < OH-content < 20	ppm
Diameter		25 - 80[1]	mm
Tolerance of diameter within a rod		± 0.2	mm/m
Non-circularity		≤ 1.5	%
Conicity of a rod		± 0.2	mm/m
Rod length		200 - 800	mm
Bow		< 1.0	mm/m
Surface		Polished	
Appearance:		dustfree and flawless	
Bubbles (>100μm)		None	

[1]Optional diameter up to 120 mm

The concentration of Li, Na, Mg, K, Ca, Al, Ti, Cr, Fe, Cu are beneath 0,2 ppb.

Ordering Information

To order j-plasma products please call, fax or email us and specify the following parameters:

Rod Type:	j-Plasil
Diameter:	mm
Length:	mm
Other:	

All j-plasma products are subject to j-plasma's ongoing process and quality improvement programs ensuring excellent performance and high reliability. We reserve the right to make changes to the above specifications without notice.

DB-SKD-001-00-0609
Issued June 2009

Officially registered facility according to EWG No. 761/2001

For further information about j-plasma products and services, please contact us:

j-plasma GmbH
Im Semmicht 1
07751 Jena, Germany
Tel.: +49-3641-352 100
Fax: +49-3641-352 101
Email: info@j-plasma.com
Internet: www.j-plasma.com