



# Tubi Vetro di Conti Gloriana

20089 Rozzano ( MI ) Via Ariosto n° 16

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## Optical Property (Internal Transmittence %)

(Sample thickness: 1mm)

Oxy- hydrogen Melting (JGS2)

Electrical/Continuous Melting

$\lambda$ (nm)	Synthetics - CVD (JGS1)	JGS2 -1	JGS2 -2	JGS3 -1(Eletrical Melting)	JGS3 -2 ( Continuous melting)
190	86.42	73.84	71.02	75.73	68.35
200	86.88	75.16	74.81	77.16	73.94
210	88.51	79.90	78.89	81.59	79.92
220	89.09	85.69	85.24	85.79	85.53
230	89.58	87.57	87.61	86.61	87.58
240	89.90	87.58	87.75	85.51	88.15
250	90.12	88.64	88.77	87.04	88.93
260	90.46	90.11	89.97	89.42	89.92
280	90.89	90.82	90.79	90.45	90.74
300	91.14	91.15	91.02	90.84	91.11
350	91.49	91.45	91.33	91.12	91.49
400	91.72	91.75	91.63	91.44	91.70
500	92.08	91.99	91.89	91.68	92.04
750	92.26	92.32	92.13	91.91	92.26
1000	92.52	92.48	92.64	92.60	92.34
2000	93.25	93.48	93.51	93.52	93.26
2500	91.58	93.56	93.57	93.77	93.33
2600	87.06	92.45	92.38	95.59	94.91
2730	9.45	64.98	57.71	79.35	64.04
3000	89.70	91.04	92.10	92.94	92.36
3200	92.84	92.61	93.27	94.02	91.42



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## Purity Property

Element	Impurities (ppm)			
	Synthetics – CVD (JGS1)	Oxy – hydrogen Melting (JGS2)		Electrical Melting (JGS3)
		JGS2-1	JGS2-2	
Al	0.16	17.00	19.35	14.44
Fe	0.01	0.36	0.39	1.46
Ca	0.31	1.30	1.55	2.45
Mg	0.65	0.22	0.89	0.46
Ti	0.08	1.3	2.41	4.84
Cu	0.01	0.04	0.02	0.16
Ni	0.01	0.01	0.01	0.04
Co	0.04	0.1	0.01	0.02
Mn	0.01	0.03	0.02	0.08
K	0.34	0.63	0.93	2.16
Na	0.06	1.11	1.81	1.33
Li	0.01	0.63	0.62	0.81
B	/	0.08	0.09	0.05
OH	1100 ~ 1300	150 ~ 250	150 ~ 250	1 ~ 120
siO <sub>2</sub>	> 99.999%	99.99%	99.95%	99.92 %



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## Mechanical/Thermal/Electrical Properties

Properties		Standard
Mechanical properties	Density	2.2g/cm <sup>3</sup>
	Compression strength	1100Mpa
	Bending strenght	67Mpa
	Tension strenght	48Mpa
	Poisson ratio	0.14-0.17
	Yang's modulus	72000Mpa
	Rigidity modulus	31000Mpa
	Mohs hardness	5.5-6.5
Thermal properties	Stain point	1120
	Softening point	1680
	Annealing point	1210
	Specific heat	670J/kg
	Thermal conductance	1.4W/m
	Thermal expansion index	5.5x10 <sup>-7</sup> cm/cm
	Working temperature	1700/2000
	Shot-term operating	1300
	Long-term operating	1100
Electrical properties	Electric resistance	7x10 <sup>Ω</sup>
	Insulating strength	250-400kv/cm
	Dielectric constant	3.7-3.9
	Absorbing constant	<4x10 <sup>-4</sup>
	Dielectric loss constant	<1x10 <sup>-4</sup>