

Sitall (Glass Ceramics)

refraction, transmission per 10mm
(with Fresnel reflection)

λ [nm]	no	T(λ) [%]
400.0		10.1
404.7	1.56387	20.2
435.8	1.55912	34.7
450.0		53.2
480.0	1.55415	58.9
486.1	1.55251	62.7
500.0		66.7
546.1	1.54899	74.2
550.0		75.2
587.6	1.54722	80.2
600.0		83.3
643.9	1.54409	85.6
650.0		86.0
656.3	1.54299	86.3
700.0		87.4
750.0		88.0
800.0		89.1
850.0		89.5
900.0		89.8
950.0		89.9
1000.0		90.0
1014.0	1.53545	90.0
1128.6	1.53379	90.1
1250.0		90.1
1529.6	1.52863	90.2
1813.0	1.52484	90.3
2000.0		90.4
2150.0		90.0
2200.0		89.7
2250.0		90.1
2300.0		90.5
2350.0		90.3
2400.0		90.1
2450.0		89.8
2500.0		82.0
2600.0		43.1
2700.0		8.90
2800.0		0.00

CTE@-50...+150°C

T, °C	$\Delta L/L$
-50	-25×10^{-7}
-35	-18×10^{-7}
-20	-8×10^{-7}
0	0
10	4×10^{-7}
20	7×10^{-7}
30	6×10^{-7}
40	3×10^{-7}
45	0
50	-3×10^{-7}
75	-24×10^{-7}
100	-60×10^{-7}
150	-150×10^{-7}

Helium Permeability

T, °C	Pa m ³ /s
0-100	$< 0.1 \times 10^{-11}$
100-200	$< 3 \times 10^{-11}$
200-300	$< 6 \times 10^{-11}$
300-400	$< 9 \times 10^{-11}$

Density 2.55 g/cm³

dispersion

λ [nm]	v(λ)
e-line 546.1	54.6
d-line 587.6	55.0

The Sitall is glass ceramics, consists of crystalline and amorphous phases, and has equal homogeneity in 3D. There are two types of the Sitall: standard grade (CO) and laser grade (LG). We offer both types preformed and prepolished.

recommended polishing slurries

- OXAPABS SP
- OXAPABS 69
- OXAPABS N
- OXAPABS PLUS
- OXAPABS NANO *for finishing*
- OXAPAD *for standard polishing and finishing*
- OXAPAAL
- OXAPASOL

recommended polishing pads

- OXAPA polishing pad hard 03, 1, 8
- OXAPA polishing pad intermediate 5, 11, 12
- OXAPA polishing pad soft 4, 19 *for finishing*

recommended polishing pitches

- OXAPAPP 15-45