SERIES S31 · IR & UV WINDOWS

Other optical window materials



Alongside CaF_2 we stock the window materials most used in spectroscopy, laser and vacuum work, in four standard sizes. Other diameters and thicknesses on request.

- Polished both sides, surface quality 60-40
- Hygroscopic crystals (KBr, NaCl) ship in desiccated packs
- AR coatings for ZnSe, Ge and Si on request
- Rectangular windows on request

MATERIAL GUIDE

Material	Transmission	n (typ.)	Key properties	Typical use
BaF_2	0.15 – 12 µm	1.47	Wider IR range than CaF_2; sensitive to thermal shock	IR spectroscopy, fast scintillators
MgF_2	0.12 – 7 µm	1.38	Excellent VUV transmission; birefringent	VUV optics, Lyman-α
Sapphire	0.17 – 5.5 µm	1.76	Very hard, scratch and chemical resistant	Pressure and vacuum windows
Fused silica	0.18 – 2.5 µm	1.46	Low expansion	UV-Vis-NIR windows
ZnSe	0.6 – 21 µm	2.40	Low absorption at 10.6 µm; soft	CO_2 lasers, ATR, thermal imaging
Germanium	1.8 – 23 µm	4.0	Opaque in the visible	Thermal imaging, IR filters
Silicon	1.2 – 15 µm	3.42	Light and rugged	MWIR optics, THz windows
KBr	0.23 – 25 µm	1.53	Very wide IR range; hygroscopic	FTIR windows
NaCl	0.25 – 16 µm	1.49 (10.6 µm)	Economical; hygroscopic	FTIR liquid cells

CONFIGURATIONS

Ref. No.	Material	Size	Transmission	Price
S3101	BaF_2	Ø 13 × 2 mm	0.15 – 12 µm	On request
S3102	BaF_2	Ø 25 × 2 mm	0.15 – 12 µm	On request
S3103	BaF_2	Ø 25.4 × 3 mm	0.15 – 12 µm	On request
S3104	BaF_2	Ø 50.8 × 5 mm	0.15 – 12 µm	On request
S3105	MgF_2	Ø 13 × 2 mm	0.12 – 7 µm	On request
S3106	MgF_2	Ø 25 × 2 mm	0.12 – 7 µm	On request
S3107	MgF_2	Ø 25.4 × 3 mm	0.12 – 7 µm	On request
S3108	MgF_2	Ø 50.8 × 5 mm	0.12 – 7 µm	On request
S3109	Sapphire	Ø 13 × 2 mm	0.17 – 5.5 µm	On request
S3110	Sapphire	Ø 25 × 2 mm	0.17 – 5.5 µm	On request
S3111	Sapphire	Ø 25.4 × 3 mm	0.17 – 5.5 µm	On request
S3112	Sapphire	Ø 50.8 × 5 mm	0.17 – 5.5 µm	On request
S3113	Fused silica (UV)	Ø 13 × 2 mm	0.18 – 2.5 µm	On request
S3114	Fused silica (UV)	Ø 25 × 2 mm	0.18 – 2.5 µm	On request
S3115	Fused silica (UV)	Ø 25.4 × 3 mm	0.18 – 2.5 µm	On request

Ref. No.	Material	Size	Transmission	Price
S3116	Fused silica (UV)	Ø 50.8 × 5 mm	0.18 – 2.5 µm	On request
S3117	ZnSe	Ø 13 × 2 mm	0.6 – 21 µm	On request
S3118	ZnSe	Ø 25 × 2 mm	0.6 – 21 µm	On request
S3119	ZnSe	Ø 25.4 × 3 mm	0.6 – 21 µm	On request
S3120	ZnSe	Ø 50.8 × 5 mm	0.6 – 21 µm	On request
S3121	Germanium	Ø 13 × 2 mm	1.8 – 23 µm	On request
S3122	Germanium	Ø 25 × 2 mm	1.8 – 23 µm	On request
S3123	Germanium	Ø 25.4 × 3 mm	1.8 – 23 µm	On request
S3124	Germanium	Ø 50.8 × 5 mm	1.8 – 23 µm	On request
S3125	Silicon	Ø 13 × 2 mm	1.2 – 15 µm	On request
S3126	Silicon	Ø 25 × 2 mm	1.2 – 15 µm	On request
S3127	Silicon	Ø 25.4 × 3 mm	1.2 – 15 µm	On request
S3128	Silicon	Ø 50.8 × 5 mm	1.2 – 15 µm	On request
S3129	KBr	Ø 13 × 2 mm	0.23 – 25 µm	On request
S3130	KBr	Ø 25 × 2 mm	0.23 – 25 µm	On request
S3131	KBr	Ø 25.4 × 3 mm	0.23 – 25 µm	On request
S3132	KBr	Ø 50.8 × 5 mm	0.23 – 25 µm	On request
S3133	NaCl	Ø 13 × 2 mm	0.25 – 16 µm	On request
S3134	NaCl	Ø 25 × 2 mm	0.25 – 16 µm	On request
S3135	NaCl	Ø 25.4 × 3 mm	0.25 – 16 µm	On request
S3136	NaCl	Ø 50.8 × 5 mm	0.25 – 16 µm	On request

Specifications are typical values; every lot ships with a Certificate of Conformance, and measured data are available on request. Prices on request.