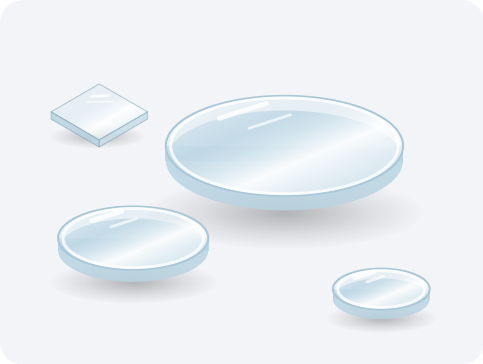
SERIES S30 · CALCIUM FLUORIDE

CaF_2 optical windows



Calcium fluoride transmits from the vacuum UV to about 10 µm, has a low refractive index and very low birefringence. It is the standard window for FTIR and IR spectroscopy cells, excimer-laser optics, thermal imaging and broadband spectroscopy. Every diameter, thickness and grade has its own reference number.

- VUV grade: 130 nm – 10 µm (excimer 157 / 193 nm, VUV spectroscopy)
- UV-Vis grade: 180 nm – 10 µm (UV-Vis-NIR, fluorescence)
- IR grade: optimised for 1 – 10 µm (FTIR cells, thermal imaging)
- Uncoated; AR coatings on request

CONFIGURATIONS

Ref. No.	Diameter	Thickness	Grade	Typical use	Price
S3001	Ø 10 mm	1 mm	VUV grade	Micro cells, detectors	On request
S3002	Ø 10 mm	1 mm	UV-Vis grade	Micro cells, detectors	On request
S3003	Ø 10 mm	1 mm	IR grade	Micro cells, detectors	On request
S3004	Ø 10 mm	2 mm	VUV grade	Micro cells, detectors	On request
S3005	Ø 10 mm	2 mm	UV-Vis grade	Micro cells, detectors	On request
S3006	Ø 10 mm	2 mm	IR grade	Micro cells, detectors	On request
S3007	Ø 12.7 mm (½")	1 mm	VUV grade	½" optic mounts	On request
S3008	Ø 12.7 mm (½")	1 mm	UV-Vis grade	½" optic mounts	On request
S3009	Ø 12.7 mm (½")	1 mm	IR grade	½" optic mounts	On request
S3010	Ø 12.7 mm (½")	2 mm	VUV grade	½" optic mounts	On request
S3011	Ø 12.7 mm (½")	2 mm	UV-Vis grade	½" optic mounts	On request
S3012	Ø 12.7 mm (½")	2 mm	IR grade	½" optic mounts	On request
S3013	Ø 12.7 mm (½")	3 mm	VUV grade	½" optic mounts	On request
S3014	Ø 12.7 mm (½")	3 mm	UV-Vis grade	½" optic mounts	On request
S3015	Ø 12.7 mm (½")	3 mm	IR grade	½" optic mounts	On request
S3016	Ø 13 mm	1 mm	UV-Vis grade	FTIR / IR cells	On request
S3017	Ø 13 mm	1 mm	IR grade	FTIR / IR cells	On request
S3018	Ø 13 mm	2 mm	UV-Vis grade	FTIR / IR cells	On request
S3019	Ø 13 mm	2 mm	IR grade	FTIR / IR cells	On request
S3020	Ø 20 mm	2 mm	UV-Vis grade	IR cells, small viewports	On request
S3021	Ø 20 mm	2 mm	IR grade	IR cells, small viewports	On request
S3022	Ø 20 mm	3 mm	UV-Vis grade	IR cells, small viewports	On request
S3023	Ø 20 mm	3 mm	IR grade	IR cells, small viewports	On request
S3024	Ø 25 mm	1 mm	VUV grade	FTIR / IR cells	On request
S3025	Ø 25 mm	1 mm	UV-Vis grade	FTIR / IR cells	On request
S3026	Ø 25 mm	1 mm	IR grade	FTIR / IR cells	On request
S3027	Ø 25 mm	2 mm	VUV grade	FTIR / IR cells	On request

Ref. No.	Diameter	Thickness	Grade	Typical use	Price
S3028	Ø 25 mm	2 mm	UV-Vis grade	FTIR / IR cells	On request
S3029	Ø 25 mm	2 mm	IR grade	FTIR / IR cells	On request
S3030	Ø 25 mm	3 mm	VUV grade	FTIR / IR cells	On request
S3031	Ø 25 mm	3 mm	UV-Vis grade	FTIR / IR cells	On request
S3032	Ø 25 mm	3 mm	IR grade	FTIR / IR cells	On request
S3033	Ø 25 mm	4 mm	VUV grade	FTIR / IR cells	On request
S3034	Ø 25 mm	4 mm	UV-Vis grade	FTIR / IR cells	On request
S3035	Ø 25 mm	4 mm	IR grade	FTIR / IR cells	On request
S3036	Ø 25 mm	5 mm	VUV grade	FTIR / IR cells	On request
S3037	Ø 25 mm	5 mm	UV-Vis grade	FTIR / IR cells	On request
S3038	Ø 25 mm	5 mm	IR grade	FTIR / IR cells	On request
S3039	Ø 25.4 mm (1")	3 mm	VUV grade	1" optic mounts	On request
S3040	Ø 25.4 mm (1")	3 mm	UV-Vis grade	1" optic mounts	On request
S3041	Ø 25.4 mm (1")	3 mm	IR grade	1" optic mounts	On request
S3042	Ø 25.4 mm (1")	5 mm	VUV grade	1" optic mounts	On request
S3043	Ø 25.4 mm (1")	5 mm	UV-Vis grade	1" optic mounts	On request
S3044	Ø 25.4 mm (1")	5 mm	IR grade	1" optic mounts	On request
S3045	Ø 32 mm	3 mm	UV-Vis grade	FTIR / IR cells	On request
S3046	Ø 32 mm	3 mm	IR grade	FTIR / IR cells	On request
S3047	Ø 38 mm	4 mm	UV-Vis grade	Liquid and gas cells	On request
S3048	Ø 38 mm	4 mm	IR grade	Liquid and gas cells	On request
S3049	Ø 38 mm	6 mm	UV-Vis grade	Liquid and gas cells	On request
S3050	Ø 38 mm	6 mm	IR grade	Liquid and gas cells	On request
S3051	Ø 50.8 mm (2")	3 mm	UV-Vis grade	Viewports, large optics	On request
S3052	Ø 50.8 mm (2")	3 mm	IR grade	Viewports, large optics	On request
S3053	Ø 50.8 mm (2")	5 mm	UV-Vis grade	Viewports, large optics	On request
S3054	Ø 50.8 mm (2")	5 mm	IR grade	Viewports, large optics	On request
S3055	10 × 10 mm	1 mm	UV-Vis grade	Substrates	On request
S3056	10 × 10 mm	1 mm	IR grade	Substrates	On request
S3057	20 × 20 mm	2 mm	UV-Vis grade	Substrates, cells	On request
S3058	20 × 20 mm	2 mm	IR grade	Substrates, cells	On request
S3059	25 × 25 mm	2 mm	UV-Vis grade	Substrates, cells	On request
S3060	25 × 25 mm	2 mm	IR grade	Substrates, cells	On request

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