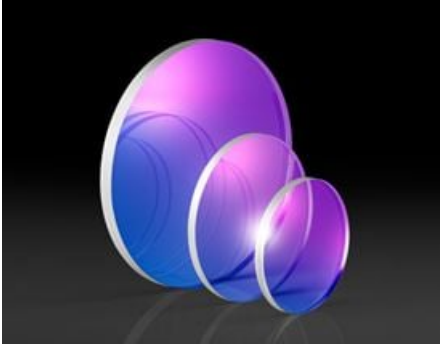


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TECHSPEC® Calcium Fluoride (CaF₂) Windows



- Low Absorption, High Transmission UV Grade Calcium Fluoride
- Low Index of Refraction
- AR Coatings Spanning 250 - 5000nm Available
- [Calcium Fluoride \(CaF₂\) Wedged Windows](#) also Available



Common Specifications

General

Type of Window: Crystal

Physical & Mechanical Properties

Bevel: Protective as needed

Clear Aperture (%): 90

Edges: Fine Ground

Poisson's Ratio: 0.26

Young's Modulus (GPa): 75.8

Knoop Hardness (kg/mm²): 158.30

Optical Properties

Substrate: Calcium Fluoride (CaF₂)
Vacuum UV Grade

Index of Refraction (n_d): 1.434

Abbe Number (v_d): 94.99

Axis Orientation: Random

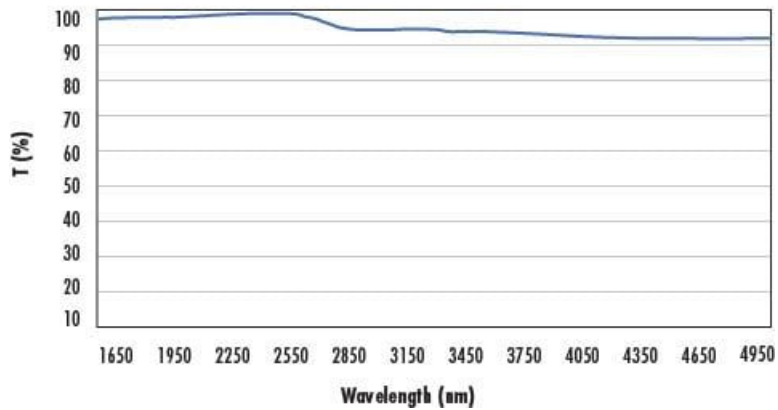
Material Properties

Density (g/cm³): 3.18

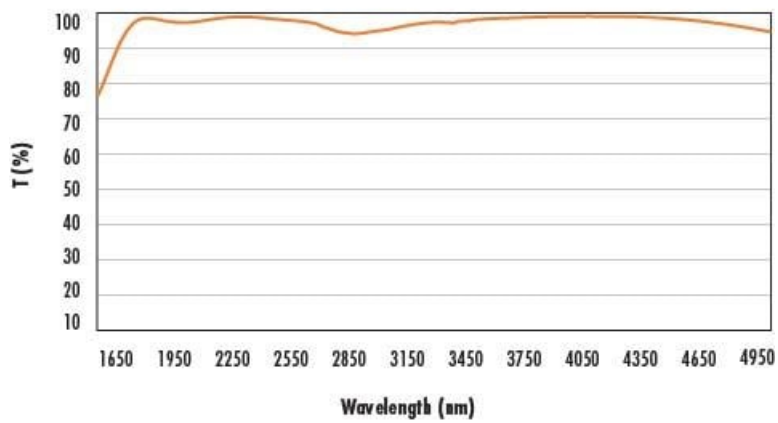
Coefficient of Thermal Expansion CTE (10⁻⁶/°C): 18.85

Technical Information

**Calcium Fluoride with 1650-3000nm BBAR Coating
Typical Transmission**



**Calcium Fluoride with 2000-5000nm BBAR Coating
Typical Transmission**



Products

Dia. (mm)	Dimensions (mm)	Thickness (mm)	Coating	Stock Number	Price	Buy
5.00	-	1.00	Uncoated	#48-853	€124,00 Volume Pricing	20+ In Stock
5.00	-	1.00	UV-VIS (250- 700nm)	#14-800	€170,00 Volume Pricing	8 In Stock
5.00	-	1.00	VIS-NIR (400- 1000nm)	#14-812	€170,00 Volume Pricing	3 In Stock
5.00	-	1.00	NIR II (750- 1550nm)	#14-824	€170,00 Volume Pricing	7 In Stock
5.00	-	1.00	BBAR (1650- 3000nm)	#15-962	€174,00 Volume Pricing	5 In Stock
5.00	-	1.00	BBAR (2000- 5000nm)	#23-509	€174,00 Volume Pricing	4 In Stock
10.00	-	1.50	Uncoated	#47-681	€130,00 Volume Pricing	20+ In Stock
10.00	-	1.50	UV-VIS (250- 700nm)	#14-801	€177,00 Volume Pricing	5 In Stock
10.00	-	1.50	VIS-NIR (400- 1000nm)	#14-813	€177,00 Volume Pricing	5 In Stock
10.00	-	1.50	NIR II (750- 1550nm)	#14-825	€177,00 Volume Pricing	1 In Stock
10.00	-	1.50	BBAR (1650- 3000nm)	#15-963	€179,00 Volume Pricing	12 In Stock
10.00	-	1.50	BBAR (2000- 5000nm)	#23-510	€179,00 Volume Pricing	5 In Stock
12.50	-	2.00	Uncoated	#47-682	€140,00 Volume Pricing	9 In Stock

12.50	-	2.00	UV-VIS (250-700nm)	#14-802	€185,00 Volume Pricing	10 In Stock
12.50	-	2.00	VIS-NIR (400-1000nm)	#14-814	€185,00 Volume Pricing	1 In Stock
12.50	-	2.00	NIR II (750-1550nm)	#14-826	€185,00 Volume Pricing	1 In Stock
12.50	-	2.00	BBAR (1650-3000nm)	#15-964	€191,00 Volume Pricing	Contact Us
12.50	-	2.00	BBAR (2000-5000nm)	#23-511	€191,00 Volume Pricing	5 In Stock
-	12.50 x 12.50	2.00	Uncoated	#25-765	€151,00 Volume Pricing	4 In Stock
12.70	-	2.00	Uncoated	#17-600	€140,00 Volume Pricing	14 In Stock
12.70	-	2.00	UV-VIS (250-700nm)	#17-601	€185,00 Volume Pricing	2 In Stock
12.70	-	2.00	VIS-NIR (400-1000nm)	#17-602	€185,00 Volume Pricing	4 In Stock
12.70	-	2.00	NIR II (750-1550nm)	#17-603	€185,00 Volume Pricing	1 In Stock
12.70	-	2.00	BBAR (1650-3000nm)	#17-604	€191,00 Volume Pricing	6 In Stock
12.70	-	2.00	BBAR (2000-5000nm)	#23-512	€191,00 Volume Pricing	1 In Stock
15.00	-	2.00	Uncoated	#48-854	€151,00 Volume Pricing	14 In Stock
15.00	-	2.00	UV-VIS (250-700nm)	#14-803	€198,00 Volume Pricing	5 In Stock
15.00	-	2.00	VIS-NIR (400-1000nm)	#14-815	€198,00 Volume Pricing	4 In Stock
15.00	-	2.00	NIR II (750-1550nm)	#14-827	€198,00 Volume Pricing	5 In Stock

15.00	-	2.00	BBAR (1650-3000nm)	#15-965	€200,00 Volume Pricing	5 In Stock
15.00	-	2.00	BBAR (2000-5000nm)	#23-513	€200,00 Volume Pricing	4 In Stock
20.00	-	2.00	Uncoated	#63-207	€163,00 Volume Pricing	20+ In Stock
20.00	-	2.00	UV-VIS (250-700nm)	#14-804	€209,00 Volume Pricing	11 In Stock
20.00	-	2.00	VIS-NIR (400-1000nm)	#14-816	€209,00 Volume Pricing	5 In Stock
20.00	-	2.00	NIR II (750-1550nm)	#14-828	€209,00 Volume Pricing	20+ In Stock
20.00	-	2.00	BBAR (1650-3000nm)	#15-966	€212,00 Volume Pricing	16 In Stock
20.00	-	2.00	BBAR (2000-5000nm)	#23-514	€212,00 Volume Pricing	Contact Us
25.00	-	1.00	Uncoated	#22-455	€168,00 Volume Pricing	14 In Stock
25.00	-	3.00	Uncoated	#47-683	€168,00 Volume Pricing	20+ In Stock
25.00	-	5.00	Uncoated	#22-456	€200,00 Volume Pricing	7 In Stock
25.00	-	1.00	UV-VIS (250-700nm)	#22-597	€214,00 Volume Pricing	3 In Stock
25.00	-	3.00	UV-VIS (250-700nm)	#14-805	€214,00 Volume Pricing	Contact Us
25.00	-	5.00	UV-VIS (250-700nm)	#22-601	€246,00 Volume Pricing	5 In Stock
25.00	-	1.00	VIS-NIR (400-1000nm)	#22-598	€214,00 Volume Pricing	1 In Stock

25.00	-	3.00	VIS-NIR (400-1000nm)	#14-817	€214,00 Volume Pricing	1 In Stock
25.00	-	5.00	VIS-NIR (400-1000nm)	#22-602	€246,00 Volume Pricing	4 In Stock
25.00	-	1.00	NIR II (750-1550nm)	#22-599	€214,00 Volume Pricing	Contact Us
25.00	-	3.00	NIR II (750-1550nm)	#14-829	€214,00 Volume Pricing	5 In Stock
25.00	-	5.00	NIR II (750-1550nm)	#22-603	€246,00 Volume Pricing	5 In Stock
25.00	-	1.00	BBAR (1650-3000nm)	#22-600	€217,00 Volume Pricing	Contact Us
25.00	-	3.00	BBAR (1650-3000nm)	#15-967	€217,00 Volume Pricing	15 In Stock
25.00	-	5.00	BBAR (1650-3000nm)	#22-604	€249,00 Volume Pricing	4 In Stock
25.00	-	1.00	BBAR (2000-5000nm)	#23-515	€217,00 Volume Pricing	7 In Stock
25.00	-	3.00	BBAR (2000-5000nm)	#23-516	€217,00 Volume Pricing	7 In Stock
25.00	-	5.00	BBAR (2000-5000nm)	#23-517	€249,00 Volume Pricing	9 In Stock
-	25.00 x 25.00	3.00	Uncoated	#25-766	€203,00 Volume Pricing	7 In Stock
25.40	-	1.00	Uncoated	#22-457	€168,00 Volume Pricing	20+ In Stock
25.40	-	3.00	Uncoated	#11-874	€168,00 Volume Pricing	20+ In Stock
25.40	-	1.00	UV-VIS (250-700nm)	#22-605	€214,00 Volume Pricing	Contact Us
25.40	-	3.00	UV-VIS (250-700nm)	#14-806	€214,00 Volume Pricing	20+ In Stock

25.40	-	1.00	VIS-NIR (400-1000nm)	#22-606	€214,00 Volume Pricing	6 In Stock
25.40	-	3.00	VIS-NIR (400-1000nm)	#14-818	€214,00 Volume Pricing	2 In Stock
25.40	-	1.00	NIR II (750-1550nm)	#22-607	€214,00 Volume Pricing	1 In Stock
25.40	-	3.00	NIR II (750-1550nm)	#14-830	€214,00 Volume Pricing	1 In Stock
25.40	-	1.00	BBAR (1650-3000nm)	#22-608	€217,00 Volume Pricing	Contact Us
25.40	-	3.00	BBAR (1650-3000nm)	#15-968	€217,00 Volume Pricing	4 In Stock
25.40	-	1.00	BBAR (2000-5000nm)	#23-518	€217,00 Volume Pricing	Contact Us
25.40	-	3.00	BBAR (2000-5000nm)	#23-519	€217,00 Volume Pricing	20+ In Stock
30.00	-	3.00	Uncoated	#63-208	€226,00 Volume Pricing	9 In Stock
30.00	-	3.00	UV-VIS (250-700nm)	#14-807	€281,00 Volume Pricing	2 In Stock
30.00	-	3.00	VIS-NIR (400-1000nm)	#14-819	€281,00 Volume Pricing	5 In Stock
30.00	-	3.00	NIR II (750-1550nm)	#14-831	€281,00 Volume Pricing	11 In Stock
30.00	-	3.00	BBAR (1650-3000nm)	#15-969	€284,00 Volume Pricing	11 In Stock
30.00	-	3.00	BBAR (2000-5000nm)	#23-520	€284,00 Volume Pricing	5 In Stock
40.00	-	3.00	Uncoated	#63-209	€261,00 Volume Pricing	20+ In Stock

40.00	-	3.00	UV-VIS (250-700nm)	#14-808	€316,00 Volume Pricing	2 In Stock
40.00	-	3.00	VIS-NIR (400-1000nm)	#14-820	€316,00 Volume Pricing	2 In Stock
40.00	-	3.00	NIR II (750-1550nm)	#14-832	€316,00 Volume Pricing	7 In Stock
40.00	-	3.00	BBAR (1650-3000nm)	#15-970	€316,00 Volume Pricing	4 In Stock
40.00	-	3.00	BBAR (2000-5000nm)	#23-521	€328,00 Volume Pricing	5 In Stock
50.00	-	1.00	Uncoated	#22-459	€295,00 Volume Pricing	9 In Stock
50.00	-	3.00	Uncoated	#47-684	€295,00 Volume Pricing	20+ In Stock
50.00	-	1.00	UV-VIS (250-700nm)	#22-609	€350,00 Volume Pricing	2 In Stock
50.00	-	3.00	UV-VIS (250-700nm)	#14-809	€350,00 Volume Pricing	4 In Stock
50.00	-	1.00	VIS-NIR (400-1000nm)	#22-610	€350,00 Volume Pricing	6 In Stock
50.00	-	3.00	VIS-NIR (400-1000nm)	#14-821	€350,00 Volume Pricing	9 In Stock
50.00	-	1.00	NIR II (750-1550nm)	#22-611	€350,00 Volume Pricing	1 In Stock
50.00	-	3.00	NIR II (750-1550nm)	#14-833	€350,00 Volume Pricing	1 In Stock
50.00	-	1.00	BBAR (1650-3000nm)	#22-612	€350,00 Volume Pricing	3 In Stock
50.00	-	3.00	BBAR (1650-3000nm)	#15-971	€350,00 Volume Pricing	Contact Us

50.00	-	1.00	BBAR (2000- 5000nm)	#23-522	€366,00 Volume Pricing	5 In Stock
50.00	-	3.00	BBAR (2000- 5000nm)	#23-523	€366,00 Volume Pricing	9 In Stock
50.80	-	3.00	Uncoated	#11-875	€295,00 Volume Pricing	8 In Stock
50.80	-	3.00	UV-VIS (250- 700nm)	#14-810	€350,00 Volume Pricing	1 In Stock
50.80	-	3.00	VIS-NIR (400- 1000nm)	#14-822	€350,00 Volume Pricing	5 In Stock
50.80	-	3.00	NIR II (750- 1550nm)	#14-834	€350,00 Volume Pricing	5 In Stock
50.80	-	3.00	BBAR (1650- 3000nm)	#15-972	€350,00 Volume Pricing	1 In Stock
50.80	-	3.00	BBAR (2000- 5000nm)	#23-524	€366,00 Volume Pricing	Contact Us
75.00	-	5.00	Uncoated	#87-705	€905,00 Volume Pricing	2 In Stock
75.00	-	5.00	UV-VIS (250- 700nm)	#14-811	€1.000,00 Volume Pricing	7 In Stock
75.00	-	5.00	VIS-NIR (400- 1000nm)	#14-823	€1.000,00 Volume Pricing	5 In Stock
75.00	-	5.00	NIR II (750- 1550nm)	#14-835	€1.000,00 Volume Pricing	4 In Stock
75.00	-	5.00	BBAR (1650- 3000nm)	#15-973	€990,00 Volume Pricing	7 In Stock
75.00	-	5.00	BBAR (2000- 5000nm)	#23-525	€1.025,00 Volume Pricing	Contact Us
100.00	-	6.00	Uncoated	#17-605	€2.135,00 Volume Pricing	1 In Stock
125.00	-	6.00	Uncoated	#17-606	€3.645,00 Volume Pricing	3 In Stock



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