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Machine Vision Mounted Sapphire Windows



- Protective Windows for Machine Vision Applications
- Windows Feature Extreme Surface Hardness and Chemical Resistance
- M25.5 to M62.0 Filter Threads Available

Common Specifications

Physical & Mechanical Properties			
Bevel:	Protective as needed	Clear Aperture (%):	≥90
Edges:	Fine Ground	Knoop Hardness (kg/mm ²):	1900
Parallelism (arcmin):	≤3.5	Poisson's Ratio:	0.27
Young's Modulus (GPa):	435		
Optical Properties			
Abbe Number (v _d):	72.24		
Axis Orientation:	Random	Birefringence (n _o -n _e):	0.008 for Visible Light Orthogonal to Optical Axis
Coating:	Uncoated	Index of Refraction (n _d):	1.77
Substrate:	Sapphire (Al ₂ O ₃)	Surface Flatness (P-V):	2λ (typical)
Surface Quality:	80-50	Wavelength Range (nm):	330 - 5500
Material Properties			
Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):	8.8	Density (g/cm ³):	3.97

Technical Information

Products

Filter Thread	CA (mm)	Dia. (mm)	Thickness (mm)	Stock Number	Price	Buy
M25.5 x 0.50	20.7	23.00	1.50	#23-281	€113,00 Qty 10+ €102,00	3-4 days
M30.5 x 0.50	25.2	28.00	1.50	#23-282	€170,00 Qty 10+ €153,00	3-4 days
M34.0 x 0.50	28.44	31.60	1.50	#23-283	€170,00 Qty 10+ €153,00	3-4 days
M37.5 x 0.50	31.5	35.00	2.20	#23-284	€237,00 Qty 10+ €213,00	3-4 days
M40.5 x 0.50	34.2	38.00	1.50	#23-285	€278,00 Qty 10+ €250,00	3-4 days
M43.0 x 0.75	36.18	40.20	1.50	#23-286	€309,00 Qty 10+ €278,00	3-4 days
M46.0 x 0.75	38.88	43.20	1.50	#23-287	€330,00 Qty 10+ €297,00	3-4 days
M58.0 x 0.75	49.5	55.00	2.00	#23-288	€474,00 Qty 10+ €426,00	3-4 days
M62.0 x 0.75	53.28	59.20	1.50	#23-289	€545,00 Qty 10+ €491,00	3-4 days



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