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5mm Dia., 1mm Thick, 400-1100nm HDAR Coated Fused Silica Window



Stock #29-974 **20+ In Stock**

1 MRP ₹20,178

Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹20,178 each
Qty 6-25	₹16,142 each
Qty 26-49	₹15,134 each
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General

Protective Window **Type:**
Glass **Type of Window:**

Physical & Mechanical Properties

4.00 **Clear Aperture CA (mm):**

5.00 +0.00/-0.10	Diameter (mm):
1.00 ±0.10	Thickness (mm):
Protective as needed	Bevel:
80	Clear Aperture (%):
Fine Ground	Edges:
<5	Parallelism (arcsec):
0.16	Poisson's Ratio:
73	Young's Modulus (GPa):
522.00	Knoop Hardness (kg/mm²):

Optical Properties

Hardened MS-NIR (400-1100nm)	Coating:
Fused Silica	Substrate: <input type="checkbox"/>
1.458	Index of Refraction (n_d):
20-10	Surface Quality:
M10	Transmitted Wavefront, P-V:
67.8	Abbe Number (v_d):
R _{avg} <1.5% @ 400 - 1100nm R _{abs} <2.0% @ 400 - 1100nm	Coating Specification:
400 - 1100	Wavelength Range (nm):
-80 to +160 per ML-M-13508C Paragraph 4.4.4	Coating Temperature (°F):

Material Properties

2.20	Density (g/cm³):
0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	Coefficient of Thermal Expansion CTE (10⁻⁶/°C):
7980 0G	Fused Silica Grade:

Environmental & Durability Factors

Severe, per ML-C-675C Paragraph 4.5.10	Coating Abrasion:
Per ML-M-13508C Paragraph 4.4.6	Coating Adhesion:
≥24 Hours per ML-C-675C paragraph 4.5.8	Coating Humidity:
≥24 Hours per ML-C-675C paragraph 4.5.9	Coating Salt Spray:
≥24 Hours Immersion per ML-C-675C paragraph 4.5.7	Coating Salt Solubility:

Regulatory Compliance

View	Certificate of Conformance:
United States	Country of Origin:
Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	Imported By:

Product Details

- HDAR Coating Achieves Severe Abrasion Requirements of MIL-C-675C
- Low Reflectivity Across the VIS-NIR
- Ideal for Use in Harsh Environments
- [Uncoated Fused Silica Windows](#) Also Available

High Durability Anti-Reflection (HDAR) Coated Fused Silica Windows feature precision fused silica substrates with rugged HDAR coatings where frequent handling or cleaning are required. Similar to [diamond-like carbon \(DLC\) coatings](#), the HDAR coatings are designed to withstand temperature cycling from -80 to +160°F, high humidity for 24 hours, salt spray for a continuous period of 24 hours, and salt solubility for an immersion period of 24 hours. These coatings are deposited on fused silica which has excellent mechanical and thermal stability, ensuring high performance even in harsh environments. High Durability Anti-Reflection (AR) Coated Fused Silica Windows are ideal for aerospace, defense, and industrial applications, as well as any optical application requiring durable protective windows.
