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50mm Dia. x 3mm Thickness Uncoated, Sodium Chloride Window



Stock **#68-819** **20+ In Stock**

− 1 + S\$302⁴⁰

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Volume Pricing	
Qty 1-10	S\$302.40 each
Qty 11-25	S\$271.60 each
Qty 26-49	S\$256.20 each
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General

Protective Window **Type:**
Crystal **Type of Window:**

Physical & Mechanical Properties

50.00 ±0.50 **Diameter (mm):**

3.00 ±0.50	Thickness (mm):
±0.50	Dimensional Tolerance (mm):
Protective as needed	Bevel:
Fine Ground	Edges:
0.25	Poisson's Ratio:
39.98	Young's Modulus (GPa):
18.20	Knoop Hardness (kg/mm²):

Optical Properties

Uncoated	Coating:
Sodium Chloride (NaCl)	Substrate: <input type="checkbox"/>
1.544	Index of Refraction (n_d):
60-40	Surface Quality:
42.89	Abbe Number (v_d):
250 - 16000	Wavelength Range (nm):

Material Properties

2.17	Density (g/cm³):
44	Coefficient of Thermal Expansion CTE (10⁻⁶/°C):
35.70	Solubility, in 100g of H₂O @ 273K (g):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

Product Details

- Excellent Transmission from 250nm – 16µm
- Low Cost
- Ideal for FTIR Spectroscopy
- [Potassium Bromide \(KBr\) Windows](#) Also Available

Sodium Chloride (NaCl) Windows are ideal for FTIR spectroscopy. Sodium Chloride (NaCl) is a material commonly used in FTIR spectroscopy. NaCl is a relatively low-cost cubic crystalline material that has excellent transmission from 250nm – 16µm. Sodium Chloride (NaCl) Windows, over this large spectral range, have an index of refraction that ranges between 1.4 - 1.6. It is hygroscopic by nature and thus samples should not contain water. The windows are sensitive to thermal shock but can be used in temperatures up to 400°C. NaCl has a density of 2.17 g/cm³ and a Knoop Hardness of 18.2.

Technical Information



Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools

Compatible Mounts
