

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



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

C\$302<sup>40</sup>

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Volume Pricing	
Qty 1-10	C\$302.40 each
Qty 11-25	C\$271.60 each
Qty 26-49	C\$256.20 each
Need More?	<a href="#">Request Quote</a>

### Product Downloads

### General

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

### Physical & Mechanical Properties

50.00 ±0.50 **Diameter (mm):**

3.00 ±0.50	<b>Thickness (mm):</b>
±0.50	<b>Dimensional Tolerance (mm):</b>
Protective as needed	<b>Bevel:</b>
Fine Ground	<b>Edges:</b>
0.25	<b>Poisson's Ratio:</b>
39.98	<b>Young's Modulus (GPa):</b>
18.20	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>

### Optical Properties

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

### Material Properties

2.17	<b>Density (g/cm<sup>3</sup>):</b>
44	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>
35.70	<b>Solubility, in 100g of H<sub>2</sub>O @ 273K (g):</b>

### Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 240:</b>

## 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/cm<sup>3</sup> 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

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