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## ISP Optics Sapphire Windows See More by [ISP Optics](#)





- High Corrosion Resistance and Thermal Stability
- Higher Durability than Glass Windows
- Transmission from 0.33 – 5.5 $\mu$ m

# Common Specifications

Physical & Mechanical Properties			
Bevel:	Protective as needed	Clear Aperture (%):	85
Edges:	Fine Ground	Knoop Hardness (kg/mm <sup>2</sup> ):	1,900.00
Parallelism (arcmin):	<3	Poisson's Ratio:	0.27
Young's Modulus (GPa):	435		
Optical Properties			
Abbe Number (v <sub>d</sub> ):	72.24		
Axis Orientation:	Random	Birefringence (n <sub>o</sub> -n <sub>e</sub> ):	0.008 for Visible Light Orthogonal to Optical Axis
Coating:	Uncoated	Index of Refraction (n <sub>d</sub> ):	1.77
Substrate:	Sapphire (Al <sub>2</sub> O <sub>3</sub> )	Surface Flatness (P-V):	2λ per 25.4mm
Surface Quality:	60-40	Wavelength Range (nm):	330 - 5500
Material Properties			
Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C):	8.8	Density (g/cm <sup>3</sup> ):	3.97

## Technical Information

Products

Dia. (mm)	Thickness (mm)	Coating	Model Number	Stock Number	Price	Buy
<a href="#">#24-541 Clearance</a>						
						
Clearance						
Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.						
25.40	1.00	Uncoated	AL-W-25-1		C\$211.33	1 In Stock
<a href="#">#24-543 Clearance</a>						
						
Clearance						
Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.						
25.40	3.00	Uncoated	AL-W-25-3		C\$246.33	8 In Stock

[#24-544 Clearance](#)



Clearance

Availability  
is limited,  
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disappear.  
Sorry, we  
cannot  
accept  
returns.  
Receive up  
to 80% off  
select  
products.

38.10

2.00

Uncoated

AL-W-  
38-2

C\$295.33

2 In Stock



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