

[All Products](#) / [Optics](#) / [Windows and Diffusers](#) / [UV and IR Windows](#)

## 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> ):	1900
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>						
<div><div>×</div><div>Clearance</div><div>Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.</div></div>						
25.40	1.00	Uncoated	AL-W-25-1		€162,00	3-4 days
<a href="#">#24-543 Clearance</a>						
<div><div>×</div><div>Clearance</div><div>Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.</div></div>						
25.40	3.00	Uncoated	AL-W-25-3		€268,00	3-4 days

[#24-544 Clearance](#)



Clearance

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

38.10

2.00

Uncoated

AL-W-  
38-2

€321,00

3-4 days

---

[#24-545 Clearance](#)



Clearance

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

38.10

3.00

Uncoated

AL-W-  
38-3

€321,00

3-4 days

---

[#24-549 Clearance](#)



Clearance

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

63.50

5.00

Uncoated

AL-W-  
63-5

€696,00

3-4 days



Copyright 2023 | Edmund Optics, Ltd Unit 1, Opus Avenue, Nether Poppleton, York, YO26 6BL, UK  
Phone: 1-800-363-1992 :  
[www.edmundoptics.com](http://www.edmundoptics.com)