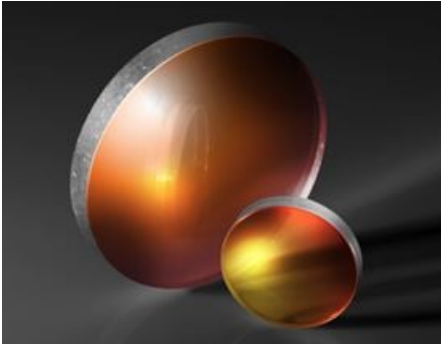


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## **TECHSPEC® Zinc Sulfide Multispectral Windows**

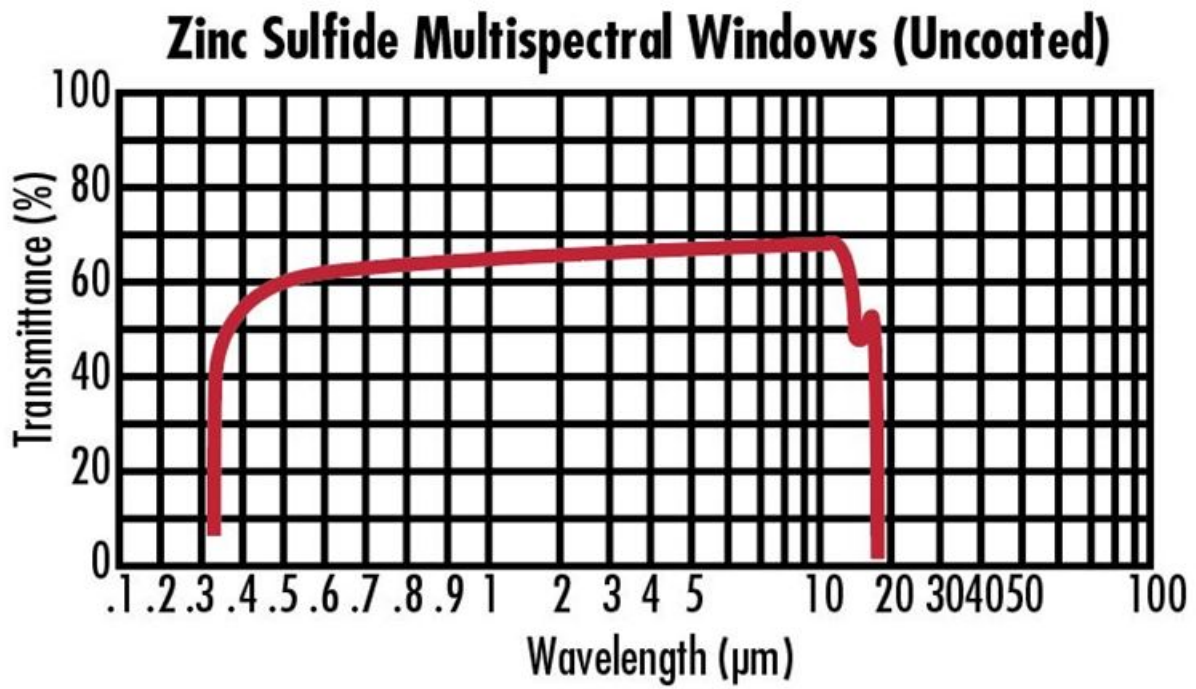


- Multispectral Grade Zinc Sulfide Substrate
- Low Absorption and Low Scatter from 0.4 - 12 $\mu$ m
- Available Uncoated or 3 - 12 $\mu$ m Broadband AR Coated Option

# Common Specifications

| Physical & Mechanical Properties                             |                            |                                       |               |
|--------------------------------------------------------------|----------------------------|---------------------------------------|---------------|
| Bevel:                                                       | Protective as needed       | Clear Aperture (%):                   | 90.00         |
| Edges:                                                       | Fine Ground                | Knoop Hardness (kg/mm <sup>2</sup> ): | 210.00        |
| Parallelism (arcmin):                                        | <1                         | Poisson's Ratio:                      | 0.27          |
| Young's Modulus (GPa):                                       | 74.5                       |                                       |               |
| Optical Properties                                           |                            |                                       |               |
| Index of Refraction (n <sub>d</sub> ):                       | 2.371                      |                                       |               |
| Substrate:                                                   | Zinc Sulfide Multispectral | Surface Flatness (P-V):               | λ/10 @ 10.6μm |
| Surface Quality:                                             | 60-40                      |                                       |               |
| Material Properties                                          |                            |                                       |               |
| Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |                            | 6.8                                   |               |
| Density (g/cm <sup>3</sup> ):                                |                            | 4.08                                  |               |

## Technical Information



## Products

| Dia.<br>(mm) | Thickness<br>(mm) | Coating             | Stock<br>Number         | Price                                         | Buy          |
|--------------|-------------------|---------------------|-------------------------|-----------------------------------------------|--------------|
| 12.50        | 2.00              | BBAR (3000-12000nm) | <a href="#">#64-144</a> | C\$446.68<br><a href="#">Volume Pricing</a>   | 3 In Stock   |
| 25.00        | 3.00              | BBAR (3000-12000nm) | <a href="#">#64-145</a> | C\$633.67<br><a href="#">Volume Pricing</a>   | 20+ In Stock |
| 40.00        | 4.00              | BBAR (3000-12000nm) | <a href="#">#64-146</a> | C\$972.02<br><a href="#">Volume Pricing</a>   | Contact Us   |
| 50.00        | 3.00              | BBAR (3000-12000nm) | <a href="#">#64-147</a> | C\$1,268.82<br><a href="#">Volume Pricing</a> | Contact Us   |
| 12.50        | 2.00              | Uncoated            | <a href="#">#66-200</a> | C\$293.83<br><a href="#">Volume Pricing</a>   | 17 In Stock  |
| 25.00        | 3.00              | Uncoated            | <a href="#">#66-201</a> | C\$427.39<br><a href="#">Volume Pricing</a>   | Contact Us   |
| 25.40        | 3.00              | Uncoated            | <a href="#">#19-653</a> | C\$427.39<br><a href="#">Volume Pricing</a>   | Contact Us   |
| 40.00        | 4.00              | Uncoated            | <a href="#">#66-202</a> | C\$730.13<br><a href="#">Volume Pricing</a>   | Contact Us   |
| 50.00        | 3.00              | Uncoated            | <a href="#">#66-203</a> | C\$972.02<br><a href="#">Volume Pricing</a>   | 12 In Stock  |
| 50.80        | 3.00              | Uncoated            | <a href="#">#19-655</a> | C\$972.02<br><a href="#">Volume Pricing</a>   | 1 In Stock   |



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