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- Spherical Lens
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- Test Plates

Zinc Sulfide

- | | |
|------------------|---------------|
| Silicon | Germanium |
| Calcium Fluoride | Sapphire |
| Zinc Sulfide | Zinc Selenide |

Zinc Sulfide (ZnS)
 Zinc Sulfide (ZnS), Regular Grade. A Chemically Vapor Deposited (CVD) material, ZnS (regular) has good imaging quality over the 8-12μm band. It also transmits in the 3-5μm band, but with higher absorption and scatter. The material exhibits high strength and hardness, and good resistance to hostile environments. The ZnS regular is 50% harder than ZnS, multi-spectral grade and twice as hard as ZnSe. ZnS regular does not transmit well in the visible spectral region. It has the relatively low cost of about 2/3 the price of ZnS, multi-spectral grade or ZnSe. Zinc Sulfide is mainly used for windows and lenses in the 8μm to 12μm range. The reflective index is near 2.2. Zinc Sulfide is particularly strong and can be used for infrared windows in high speed aircraft and vacuum applications.



Specifications:
 Material: ZnS
 Diameter Tolerance: +0.00, -0.15mm(Standard), +0.00, -0.02mm(Precision)
 Flatness: $\lambda/632.8\text{nm}$
 Surface Quality: 60-40 S/D
 Paraxial Focus Length: +/-2%
 Centration: <5arc minutes
 Clear Aperture: >85% of diameter
 Bevel: 0.25x45deg

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