



SOLCERA

Advanced Materials



CERA4VIEW[®]

A WAVELENGTH AHEAD

CERA4VIEW®

PRODUCT HIGHLIGHTS OF SPINEL MATERIAL

- Unlimited imagination in optical design: Windows, lens, prisms, freeform optics, wafer
- Transparent from UV (300 nm) to MWIR (5500 nm)
- Refractive Index from 1,72 to 1,64
- Operating temperature up to 1000°C
- High thermal conductivity
- Isotrope
- Great mechanical strength
- Chemically inert
- Light.

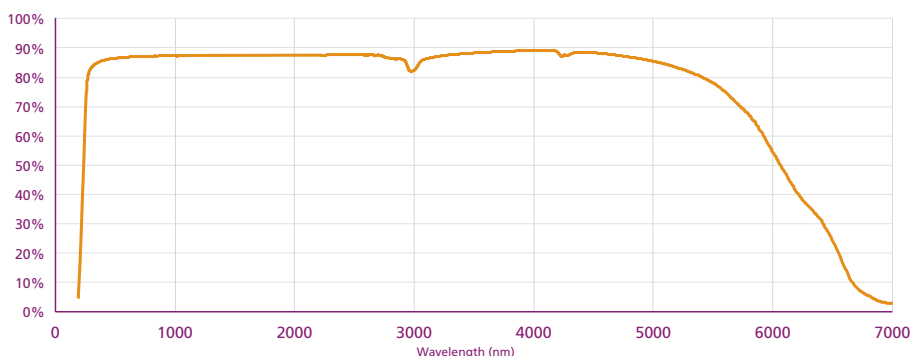
WHY CHOOSING SOLCERA

- Advanced Ceramics development and manufacturing for over 60 years
- Made in France, member of LA FRENCH FAB
- SME with international scope
- Expert in transparent ceramics for military programs for over 50 years
- Professional advice and assistance provided by our engineers
- Independent and ITAR-free
- Production capacity from prototypes to large volumes
- Integrated processes from the powder up to the final optical component
- Customer-specific solutions
- Proven expertise in ceramic-to-metal assemblies.



TECHNICAL PARAMETERS

Transmittance from 300 nm to 5 500 nm > 80% without coating



Refractive Index: 1,64 @ 4 μ m, 1,71 @ 587 nm, 1,704 @ 656 nm and 1,725 @ 486 nm, Abbe V-number = 33,8

Maximum size: 150x150x20 mm³ and 300x300x20mm³ available end of 2020

Thermal conductivity: 15 W/m.K

Density: 3.58

Hardness (Vickers): 1400 daN/mm²

Toughness: 3 MPa.m^{1/2}

Biaxial Flexural strength : 400 MPa (average).

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