



# SOLCERA

Advanced Materials



CERA4VIEW<sup>®</sup>

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.

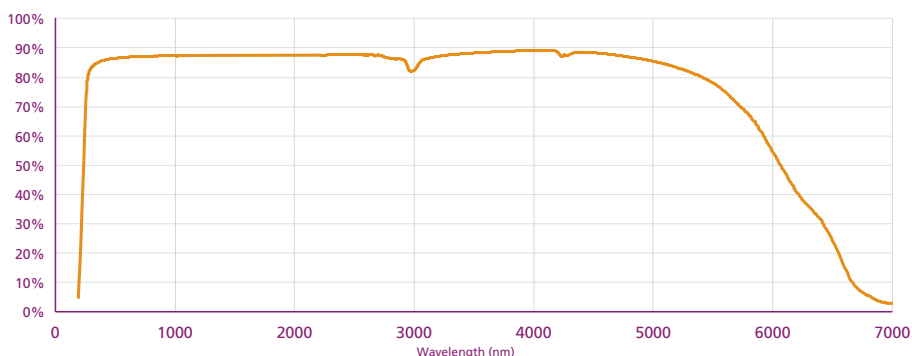
## WHY CHOOSING SOLCERA

- Advanced Ceramics development and manufacturing for over 60 years
- Made in France, member of LA FRENCH LAB
- 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 μm, 1,71 @ 587 nm, 1,704 @ 656 nm and 1,725 @ 486 nm, Abbe V-number = 33,8

**Maximum size:** 150x150x20 mm<sup>3</sup> and 300x300x20mm<sup>3</sup> available end of 2020

**Thermal conductivity:** 15 W/m.K

**Density:** 3.58

**Hardness (Vickers):** 1400 daN/mm<sup>2</sup>

**Toughness:** 3 MPa.m<sup>1/2</sup>

**Biaxial Flexural strength :** 400 MPa (average).