

PROPERTIES of Water-clear ZnS

MECHANICAL PROPERTIES

Young Modulus	: 74,5 GPa
Knoop Hardness	: 160 kg/mm ²
Modulus of Rupture	: 68 MPa at room temperature : 160 MPa at 660°C
Poisson constant	: 0.28
Density	: 4.09 g/cm ³

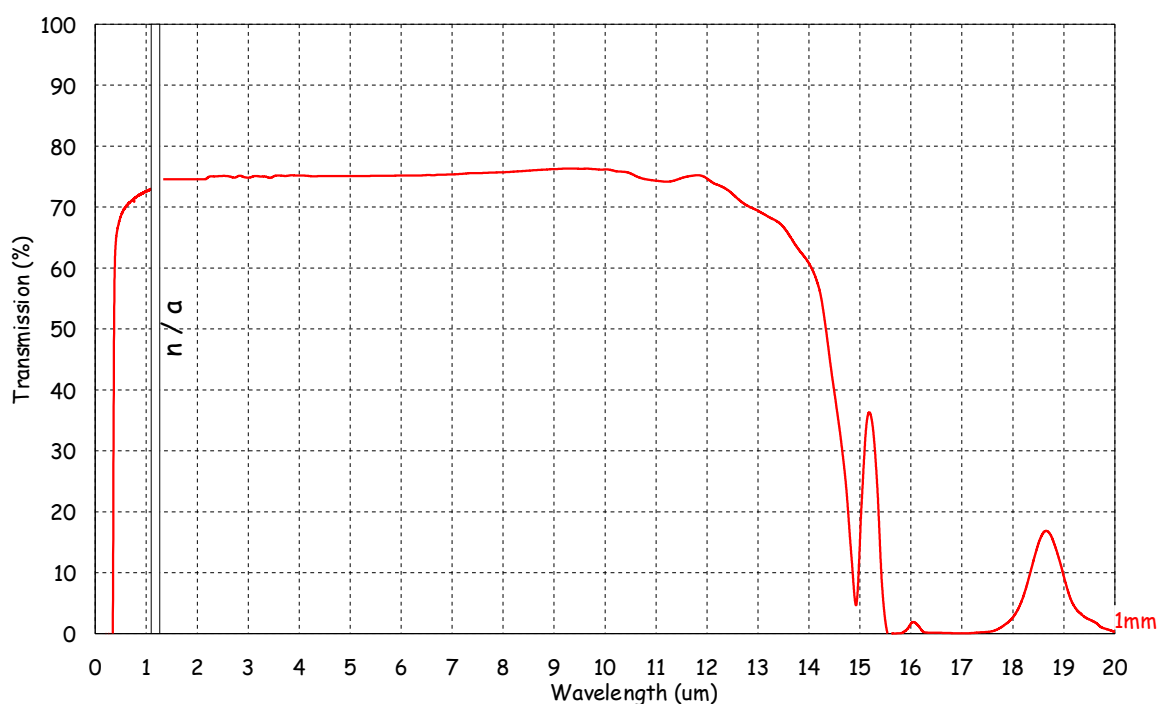
THERMAL PROPERTIES

Melting Point	: 1830°C
Heat Capacity	: 0.124 Cal/(g·°K)
Thermal Expansion Coefficient	: 7.85 10 ⁻⁶ °C ⁻¹
Thermal Conductivity	: 0,272 Wcm ⁻¹ ,K ⁻¹ at 27°C

OPTICAL PROPERTIES

Refraction Index at 20°C	: 2.41279 at 0,5μm
	: 2.33073 at 0,7μm
	: 2,29165 at 1μm
	: 2,25772 at 3μm
	: 2.24661 at 5μm
	: 2.22334 at 7μm
	: 2,20084 at 8,20μm
	: 2.18317 at 10,20μm

TRANSMISSION CURVE (without coating)



TRANSMISSION CURVE (AR/AR 8...14μm)

