

LYZA 7000 IR CRYSTAL PROPERTIES

MATERIAL	TRANSMISSION RANGE (cm ⁻¹)	ATR RANGE (cm ⁻¹)	REFRACTIVE INDEX (at 1000 cm ⁻¹)	DENSITY (g/cm ³)
KBr	7500 – 380	-	1.52	2.753
CaF ₂	7500 – 1111	-	1.4	3.18
ZnSe	7500 – 540	5100 – 650	2.4	5.27
Ge	-	5000 – 675	4.0	5.32
Diamond	-	4200 – 350	2.4	3.51

MATERIAL	CLEANING	DAMAGE CAUSING LIQUIDS	REMARKS
KBr	Anhydrous solvents	Aqueous solutions	hygroscopic, wide transmission range, susceptible to scratches
CaF ₂	Alcohol, acetone, organic solvents	NH ₄ ⁺ salts, acids	withstands high pressure, resists most acids and bases, low solubility in water, susceptible to scratches, quite high absorption rate
ZnSe	Alcohol, acetone, H ₂ O, organic solvents	acids, strong alkalis	susceptible to scratches, high transmittance
Ge	Alcohol, acetone, H ₂ O, organic solvents	H ₂ SO ₄ , aqua regia	temp. sensitive (max. 80°C), suitable for samples with high refractive index
Diamond	Alcohol, acetone, organic solvents	K ₂ Cr ₂ O ₇ , conc. H ₂ SO ₄	very hard, withstands high pressure, chemically inert

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