

Cr:YSO



DESCRIPTION

CRYLINK's Cr:Y₂SiO₅ crystal products, also known as Cr:YSO. It is a kind of slow relaxation saturated absorber with excellent comprehensive performance. It is widely used in laser Q - switching and solid-state lasers. The product has the characteristics of high damage threshold, high ground state absorption, high pumping rate, 750nm wide absorption band, long pulse duration. Can be used in Cr:LiCAF laser, Cr:LiSAF laser, Q switched ruby laser, harmonized alexandrite solid laser products.

PARAMETERS

Attribute	Value
Chemical Formula	Cr:Y ₂ SiO ₅
Color	Blue
Crystal System	Monoclinic, Biaxial
Lattice Constant	a=10.41Å, b=6.72Å, c=12.49Å, β=102°39'
Cr atom/mol %	~9.7×10 ¹⁹ /cm ³
Main Absorption Peak	390nm, 595nm, 695nm and 750nm
Emission Spectrum	10001500nm (Peak@1250nm)
Fluorescence Lifetime at 25°C	0.7μs
Density	4.6 g/cm ³
Refractive Index	1.8
Melting Point	2070°C

FEATURES

- High pumping rate
- Longer pulse duration
- High damage threshold
- Higher base state absorption
- 750nm wide absorption band

APPLICATIONS

- Cr:LiCAF laser
- Cr:LiSAF laser
- Q switched ruby laser
- Tunable emerald alexandrite solid laser

SPECTRA

