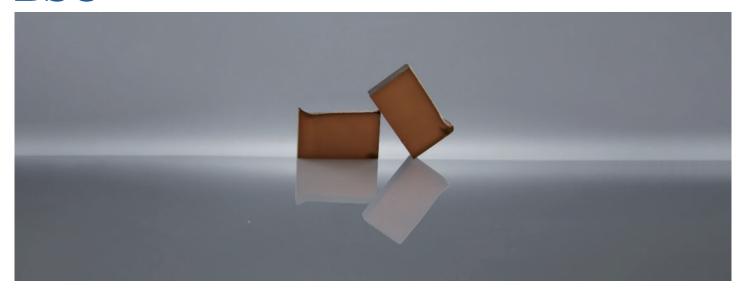


BSO



DESCRIPTION

BSO crystal, also known as bismuth silicate crystal, with the chemical formula Bi₁₂SiO₂₀, is a yellowish, high-efficiency photoelectric conductor with good overall performance, and BSO crystal has remarkable electro-optical and photo-conductivity properties, wide optical window, good light transmission, high damage threshold, and high phase conjugation efficiency. They are very suitable for electro-optical effects and are used in electro-optical sensors, holographic recording devices, photo-folding incoherent to coherent optical converters, thin-film optical waveguides, photorefraction, and other related fields. It is ideal for making functional devices for space optics because it can be drawn into large single crystals.

FEATURES

- High electro-optical coefficient
- High phase conjugation efficiency
- Large size components available up to 3"
- Can be customized upon request

APPLICATIONS

- Electric light switch
- Spatial light modulator
- Phase co-location mixer

CRYSTAL SPECIFICATION

85%
+0.0mm/-0.2mm
±0.2mm
<30 arc seconds
<0.3mm @45°
40/20
<λ/4 @632.8nm
No coating



BSO

CRYSTAL CHARACTERISTICS

Chemical formula	$Bi_{12}SiO_{20}$
Lattice parameters	10.10Å
Density	9.2g/cm ³
Mohs Hardness	5
Transmission range	0.45-6µm
Refractive index	2.54 @630nm
Spinability	42 deg/mm @500nm
Electro-optical coefficient	r ₄₁ =5pm/v
Dielectric constant (low frequency)	56

SPECTRA

