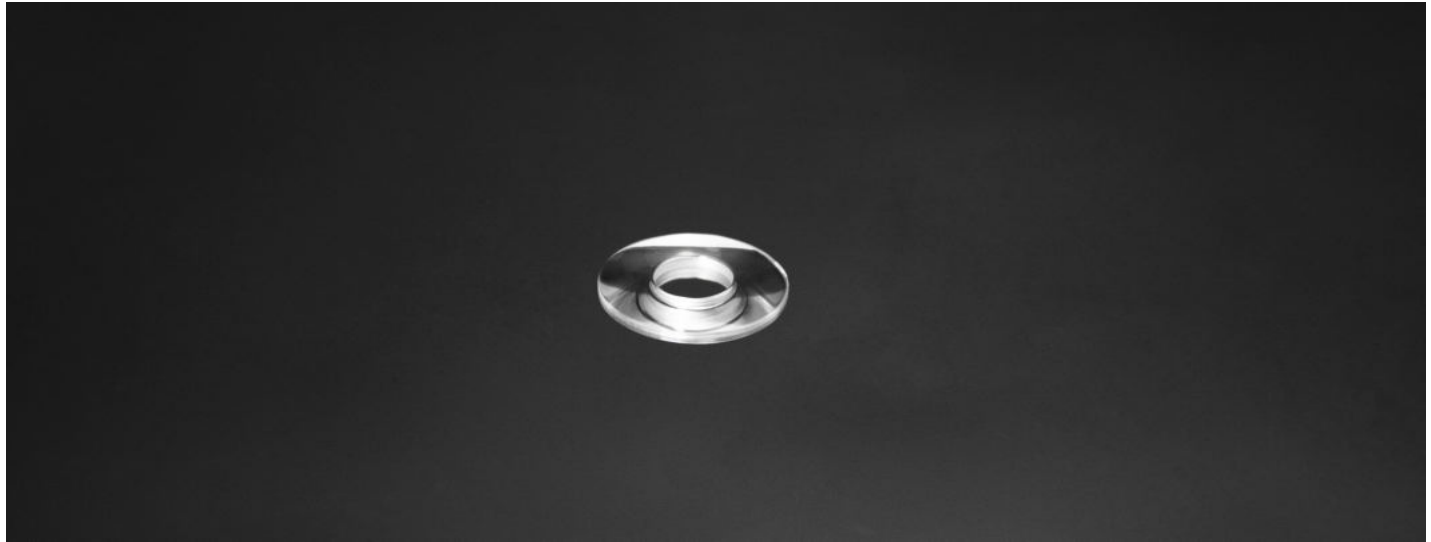


KCl

Potassium Chloride (KCl) Crystal Substrate



DESCRIPTION

Potassium Chloride (KCl) Crystal has a high infrared transmittance, the transmittance greater than 90% when thickness less 10mm and in the range of 4000-500cm⁻¹, no impurity absorption. Its optical performance is excellent. The application of KCl substrate usually used for infrared transmission windows and FTIR spectrophotometers. It's also useful for CO₂ lasers.

FEATURE

- High infrared transmittance
- A wide pass band

PARAMETER

Physical Properties

Crystal structure	face centered cubic, M3 a = 6.291 Å
Growth method	crystallization process
Density	1.98g/cm ³
Melting point	770°C
Refractive index	1.49025(at 589nm)
T	0.91
Nf	0.01114

APPLICATION

- Infrared transmission windows
- FTIR spectrophotometers

Main Specification

Surface roughness	<10nm due to hygroscopic nature (CMP polished to Ra < 0.5nm)
Orientation	(111), (110), (100)
Size	10x10x1.0mm, 10x10x2.0mm, 20*20*2.0mm or other sizes
Surface polishing	Single side or double side polished
Packaging	Packing in class 1000 clean room with class 100 grade plastic bag

