

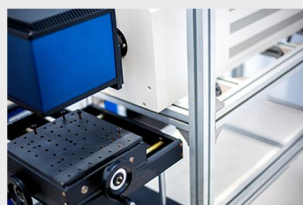


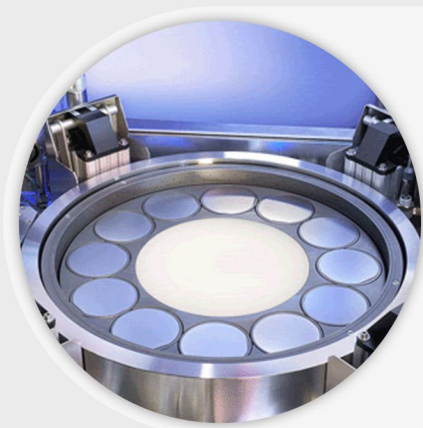
ABOUT CRYSCORE

CRYSCORE OPTOELECTRONIC LIMITED has been a superior professional manufacturer specialized in high-quality sapphire wafers and optical windows since 2008. As an ISO9001 & ISO14001 certified company, CRYSCORE can provide standard or custom sapphire wafers with any orientation applied to epitaxy, as well as sapphire windows with any specifications applied to optics. Patterned sapphire substrates and sapphire ingots also can be provided.

So far, we have supplied products and technical support to more than 200 customers around the world, including the world's leading epitaxy companies, optics manufacturers, university laboratories and scientific research institutes.

Our objective is to be a superior reliable manufacturer, with zero customer complaints and zero overdue delivery throughout the year.





APPLICATIONS

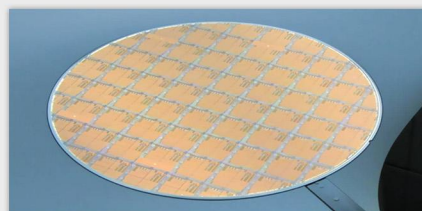
Growth substrate for III-V and II-VI compounds (GaN, ZnO, AlN, etc.)

Electronics and optoelectronics

IR applications

Silicon On Sapphire Integrated Circuit (SOS)

Radio Frequency Integrated Circuit (RFIC)



PRODUCTS

CRYSCORE all use 99.999% high purity monocrystalline Al_2O_3 , optical grade one sapphire materials. We can produce Epi-ready grade sapphire wafers with a very low surface roughness in complete orientation options, and sapphire windows with good transmittance and excellent optical performance. We also provide patterned sapphire substrates and sapphire ingots.



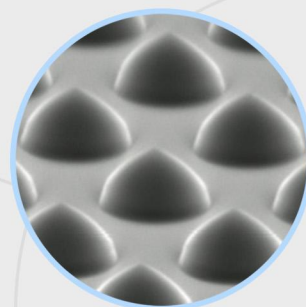
Sapphire Wafers



Sapphire Windows



Sapphire Ingots



Patterned Sapphire
Substrates



Sapphire Wafers

Diameter or size	Φ0.5-inch to Φ8-inch, 3 mm x 3 mm to 200 mm x 200 mm
Orientation	All orientations (C/A/R/M/N/V-plane, C off M/C off A/R off M/R off A, or specified orientation)
Thickness	0.15 mm to 30 mm
Surface Finish	Single side polished, Double side polished, Fine ground, As-cut



Sapphire Windows

Diameter or size	Φ3.5 mm to Φ290 mm, 3 mm x 3 mm to 200 mm x 200 mm
Orientation	C-plane(0001) or any specified orientation
Thickness	0.15 mm to 30 mm
Surface Finish	Optical polished, scratch/dig < 10/5 or Epi-polished, Ra < 0.2 nm (by AFM)



Sapphire Ingots

Diameter or size	Φ0.5-inch to Φ8-inch or any size
Orientation	C-plane(0001) or any specified orientation
Length	According to customer's requirements
Surface Finish	Fine ground



Patterned Sapphire Substrates

Diameter	2-inch, 4-inch
Orientation	C-plane(0001) or C-plane(0001) off angle toward M-axis 0.2 +/- 0.1°
Thickness	430 μm for 2-inch, 650 μm for 4-inch
Pattern Specification	2-inch: Diameter 2.4 +/- 0.2 μm; Spacing 0.6 +/- 0.2 μm; Depth 1.5 +/- 0.15 μm 4-inch: Diameter 2.7 +/- 0.1 μm; Spacing 0.3 +/- 0.1 μm; Depth 1.7 +/- 0.15 μm

CRYSCORE OPTOELECTRONIC LIMITED

E-mail: sapphire@cryscore.com



HENAN Factory



+86-391-3933 936



+86-391-3936 918



No. 49, Jiefang East Road, Shanyang District,
JIAOZUO 454000, HENAN, CHINA



WUHAN Factory



+86-27-8171 6122



+86-27-6349 6122



No. 2, Liufangyuan South Road, Donghu Dvpt. Zone,
WUHAN 430205, HUBEI, CHINA