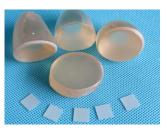


## 上海奥普特科晶体材料有限公司 Shanghai Opticrystal Materials Co., Ltd

## SrTiO3 Strontium Titanate :

SrTiO3 Strontium titanate single crystal has the good lattice structure possessed by perovskite structured materials. It is an excellent substrate material for the epitaxial growth of HTS and most oxide films, and has been widely used in the research of high-temperature superconducting films. It is also widely used in special optical windows and high-quality sputtering targets.



## Main features:

Well with the lattice of HTS materials

No twin crystal structure

Excellent physical and mechanical properties

## Materials properties:

Syngony	cubic system
Growing directions	Flame method
Lattice constant	a=3.905Å
Melting point (°C)	2080
Density (g/cm3)	5.122
Hardness (Mho)	6-6.5
Thermal expansion coefficient (/°C)	9.4×10-6
Dielectric constant	ε=5.20
Thermal expansion coefficient	10.4×10-6/k
Color and appearance	Transparent (sometimes slightly brown according to the annealing state) without twin
Crystal surface orientation accuracy	$\pm 0.5^{\circ}$
Edge orientation accuracy	2° (Special requirements are within 1°)
Crystal orientation	<100>, <110>, <111>, etc