



Company Profile

Shanghai Opticrystal Materials Co., Ltd was established in 2014, mainly engaged in the R&D, processing and sales of optical crystals, electronic and semiconductor materials, as well as laboratory equipment, spare parts, consumables and other products.



I. Optical Crystals :

Laser crystals: Nd:YAG, Cr⁴⁺:YAG, Yb:YAG, Tm:YAP, Ho:YAG, Ho:YAP, Er:YAG, Er: glass, Nd:YLF, Nd:YVO₄, Ti³⁺:Al₂O₃ and bonded crystals. **Scintillation crystals:** Ce:LuAG, Ce:GAGG, Ce:YAG. **Piezoelectric crystals:** BaTiO₃, Quartz, (PMN-PT), LiTaO₃, LiNbO₃, LGS. **Magneto-optic crystals:** TGG, TSAG, TLF, KTF, CeF₃, YIG. **Acousto-optic crystal:** TeO₂. **Birefringent crystals:** YVO₄, α -BBO. **Nonlinear crystals:** β -BBO, KDP, DKDP, LBO, KTP, PPLN. **Metal Single crystals:** Al, Cu, Mg, Ni. **Single crystal substrates:** Al₂O₃, GGG/NGG/SGGG, LSAT, LaAlO₃, MgO, MgAl₂O₄, SrTiO₃, YSZ, TiO₂. **Special glass:** ITO glass, FTO glass, AZO glass. **Gemstones:** Ruby, Sapphire, Emerald.

II. Precision Optics:

Optical windows, filters, lenses, prisms, objective lenses, cylindrical mirrors, mirrors, beam combiners, beam expanders, wedge mirrors, glued mirrors, etc.; materials include BK7, K9, quartz glass, sapphire, silicon Si, Germanium Ge, zinc selenide ZnSe, calcium fluoride CaF₂, magnesium fluoride MgF₂, barium fluoride BaF₂, zinc sulfide ZnS and so on.

III. Optical Devices:

Photoelectric Pockels Cell: BBO, KDP, DKDP, LN/MgO:LN, LGS, KTP, RTP. **Faraday Optical Isolators:** Polarization-independent isolator, polarization-dependent isolator, near-infrared visible light free-space isolator, in-line isolator, circulator, etc. **Optical Modulators:** lithium niobate phase modulators, fiber-coupled acousto-optic modulators, spatial acousto-optic modulators, acousto-optic Q switches, acousto-optic filters, acousto-optic deflectors, and acousto-optic drivers. **Special Optical Fiber:** special silica optical fiber, single optical fiber, optical fiber bundle, optical fiber passer, optical fiber collimator.

IV. Semiconductor Materials:

Quartz, diamond, GaAs, Si, Ge, ZnO, AlN, GaN, GaO, SiC, LiTaO₃, LiNbO₃, etc. **Ceramic Substrates:** Si₃N₄, Al₂O₃, AlN, ZrO₂. **Sputtering targets:** single crystal target, metal target, alloy target, ceramic target, compound target, rare earth target.

V. Laboratory equipment and consumables:

Optical platforms, translation stages, mirror frames, teaching experiment modules, spectrometers, power meters, lasers, pulsed xenon lamps, scientific research electric furnaces, performance testing equipment, consumables, etc.

Shanghai Opticrystal has a professional R&D, processing and sales team. The products have been widely used in laser processing, new energy vehicles, photovoltaics, optical communications, aerospace, ships, nuclear detection, medical beauty, consumer electronics, electricity, Environmental protection, scientific research and other fields, the products are exported to Europe, America and Southeast Asia and other regions. The company adheres to the tenet of "customer-centric, quality first and high-quality service", provides customers with high-quality products and one-stop overall solutions, continuously improves service quality and customer satisfaction, and cooperates with the industry to develop and progress together!



Product Contents :

I. Optical Crystals :

Laser crystals:		
1.Cr ⁴⁺ :YAG.....P4	8.Ho:Tm:YLF.....P10	15.Ti:Al ₂ O ₃P17
2.CTH:YAG.....P5	9.Nd:GGG.....P11	16.Tm:YLF.....P18
3.Er:Glass.....P6	10.Nd:YAG.....P12	17.Tm:YAP.....P19
4.Er:YAG.....P7	11.Nd:YAP.....P13	18.Tm:YAG.....P20
5.Ho:YAG.....P8	12.Nd:YLF.....P14	19.Yb:YAG.....P21
6.Ho:YAP.....P9	13.Nd:YVO ₄P15	20.Bonded Crystal.....P22
7.Ho:YLF.....P9	14.Nd:Ce:YAG.....P16	

Scintillation crystal	Piezoelectric crystal	Magneto-optic crystal
1.Ce:GAGG.....P23	1.BaTiO ₃P27	1.KTF.....P34
2.Ce:LuAG.....P24	2.KTN.....P28	2.LTF.....P35
3.Ce:YAG.....P25	3.LGS/LGT/LGN.....P29	3.TGG.....P36
4.Ce:YAP.....P26	4.LN.....P30	4.TSAG.....P37
	5.LT.....P31	5.YIG.....P38
	6.PMN-PT.....P32	
	7.Quartz.....P33	

Acousto-Optic/Birefringence	Nonlinear Crystal	
1.TeO ₂P40	1.β-BBO.....P44	8.LBO.....P55
2.a BBO.....P41	2.BIBO.....P46	9.LiIO ₃P57
3.YVO ₄P42	3.CLBO.....P48	10.PPLN.....P58
	4.KDP.....P50	11.RTP.....P59
	5.GaSe.....P51	12.YCOB.....P61
	6.KTA.....P52	13.ZGP.....P62
	7.KTP.....P53	

Metal Single Crystal	Single Crystal Substrate	
1.Al.....P63	1.Al ₂ O ₃P67	7. MgAl ₂ O ₄P73
2.Cu.....P64	2.GGG/NGG/SGGG.....P68	8. MgO.....P74
3.Mg.....P65	3.KT.....P69	9.Nb/Fe:SrTiO ₃P75
4.Ni.....P66	4.LaAlO ₃P70	10.SrTiO ₃P76
	5.LiAlO ₂P71	11.TiO ₂P77
	6.LAST.....P72	12. YSZ.....P78

Special Glass	Gemstones
1.AZO Glass.....P79	1.Ruby.....P81
2.FTO Glass.....P79	2.Sapphire.....P81
3.ITO Glass.....P80	3.Emerald.....P81
	4.Gem Bearing.....P82
	5.Gem nozzle.....P83
	6.Gem Ball.....P83



Product Contents :

II. Precision Optics :

Categories	Products	Pag
1. Window	BK7, K9, Quartz glass, Sapphire, Si, Ge, ZnSe, CaF2, MgF2, BaF2, ZnS	P84
2. Wave plate	Glued zero level, Multi-level wave plate, Achromatic wave plate	P85
3. Beamsplitter Cube	Polarization Beamsplitter Cube, Non-polarization Beamsplitter Cube	P86
4. Lens	Cylindrical, biconvex, biconcave, plano-convex, plano-concave, Achromatic lens	P87
5. Prism	Triangular prism, equilateral prism, rectangular prism, pentagonal prism, cube prism, roof prisms, Dove prism, corner cube prism, special-shaped prism, etc.	P88
6. Mirror	Flat mirror, spherical mirror	P89
7. Optical filter	Narrowband, Bandpass, Longpass, Shortpass, Infrared, Far Infrared, Dichroic Mirrors, Notch Filters, Neutral Density Filters	P90
8. Grating	Transmission Grating, Diffraction Grating, Holographic Grating	P91
9. Flyeye lens	Linear, square, hexagonal, circular, cylindrical, cylindrical, spherical, aspherical	P92

III. Optical Devices:

Categories	Products	Page
1. Photoelectric switch	BBO/DKDP/KTP/LGS/LN/MgO:LN/RTP	P93
2. Faraday rotator	532~1064nm	P99
3. Faraday Free Space	532~1064nm	P99
4. Non-Polarization Isolator		P101
5. In-line Isolator		P105
6. Acousto-optic modulator	Fiber-coupled acousto-optic modulator, polarization-maintaining fiber-optic acousto-optic modulator, spatial acousto-optic device, acousto-optic Q switch, acousto-optic filter, acousto-optic deflector, acousto-optic driver	P106

IV. Semiconductor Materials :

Classification	product	page
1. Semiconductor substrate	AlN, CVD diamond, GaAs, GaN, GaO, Ge, InAs, InP, LN, LT, Quartz Qz, Si, SiC, SiO, ZnO, LN/LT film	P166
2. Ceramic substrate	AlN, Si ₃ N ₄ , Al ₂ O ₃ , ZrO	P184
3. Single crystal target	Single crystal target, metal target, alloy target, ceramic target, compound target, rare earth target	P187

V. Lab Equipment & Consumables:

Classification	product	page
1. Equipment & Parts	Cold light source, laser light source, quartz laser cavity, xenon lamp	P193
2. Packaging	Membrane box, sticky box, wafer box, sponge box, protective box	P196
3. Consumbles	Laser goggles, laser card	P200

