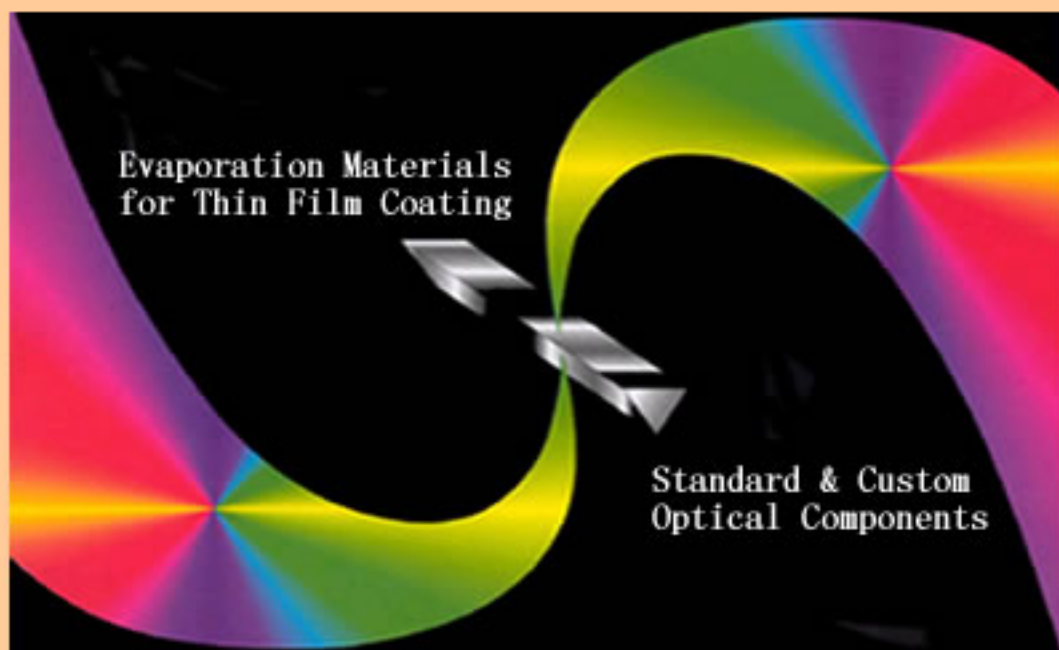


Photonic Supply

Evaporation Materials & Optics Catalog



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PHOTONIC SUPPLY



Evaporation Materials

Oxides:

Al_2O_3 , SiO_2 , SiO , Ta_2O_5 , TiO , TiO_2 , Ti_2O_3 , Ti_3O_5 , ZrO , ZrO_2 , HfO_2 , Bi_2O_3 , ITO , Gd_2O_3 , MgO , CeO_2 , Y_2O_3 , ZnO , Nd_2O_3 , Nb_2O_5 , WO_3 , Sb_2O_3 , Sc_2O_3

Fluorides:

MgF_2 , CaF_2 , BaF_2 , LaF_3 , PrF_3 , YF_3 , NdF_3 , Na_3AlF_6 , AlF_3 , PbF_2

Infrared:

Ge , Si , ZnS , ZnSe , single crystal Ge , Si

Others:

Al , Cr , Au , Ag , Mo plate, W boat, Optical color glass.



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A leading evaporation material manufacturer from China

Photonic Supply is a leading optical coating evaporation material manufacturer with a sales office in Atlanta, Georgia and plants in China. The company specializes in manufacturing high-purity, high quality oxides, fluorides and mixtures for thin-film coating. Our products have been sold around the world with great customer satisfaction.

We are committed to providing our customers superior quality materials at very competitive price.

- **High Quality, Competitive Price**
(Our price is 70%~300% lower)
- **Manufacturer Direct Sale**
- **Overnight Delivery**



Application

Anti-reflection coatings, multi-layers, interference films, protective films, transparent conductive films; anti-static films, solar technology, beam splitters, filters, UV coating, IR coating, decorative coatings, water resistant film coating.

Global Sales Contact Mr. John Wang

Photonic Supply

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Oxides

Part#	Product Name	Purity (%)	Size (mm)	Reflective Index @500nm	Transmission Range(nm)	Evaporation Temperature (°C)
1011G	Aluminum Oxide (Al ₂ O ₃)	99.99	1-3 granule	1.62@550m	200-5000	2000-2200
1012G			3-5 granule			
1013G			5-8 granule			
1014T			10x3 tablet			
1021G	Antimony Oxide (Sb ₂ O ₃)	99.9	1-3 granule			
1022T			10x10 tablet			
1031G	Bismuth Oxide (Bi ₂ O ₃)	99.9	1-3 granule	2.50	400-12000	1400
1032T			10x10 tablet			
1041G	Cerium Oxide (CeO ₂)	99.99	1-3 granule	2.32	400-15800	1950
1042G			10x3 tablet			
1043T			18x10 tablet			
1051G	Gadolinium Oxide (Gd ₂ O ₃)	99.9	1-3 granule	1.80	320-15000	2200
1052T			10x10 tablet			
1061G	Hafnium Oxide (HfO ₂)	99.99	1-3 granule	1.95	230-7000	2500
1062G			3-8 granule			
1063T	HfO ₂ (Black)	99.99	8x6 tablet			
1064T	HfO ₂ (Gray)	99.99	8x6 tablet			
1071G	Magnesium Oxide (MgO)	99.95	1-3 granule	1.70	200-8000	2000
1072T			10x3 tablet			
1073T			18x10 tablet			
1081G	Niobium Oxide (Nb ₂ O ₅)	99.99	1-3 granule	2.30	350-9000	2000
1082G			3-5 granule			
1083T			10x10 tablet			
1084T			15x10 tablet			
1221G	Neodymium Oxide (Nd ₂ O ₃)	99.99	1-3 granule	1.80	400-8000	1400
1222T			10x3 tablet			
1091G	Scandium Oxide (Sc ₂ O ₃)	99.99	1-3 granule	1.90	250-12000	2300
1092G			10x3 tablet			
1093T			18x10 tablet			
1101G	Silicon Oxide (SiO ₂)	99.99	1-3 granule	1.46	200-9000	1600-2200
1102G			3-5 granule			
1103G			5-8 granule			
1104G			1-2.5 granule			
1105T			10x10 tablet			
1111G	Silicon Monoxide (SiO)	99.99	1-2.5 granule	1.55	800-8000	1200-1600
1112G			1-3 granule			
1113G			3-6 granule			
1114G			8-16 granule			
1121G	Tantalum oxide (Ta ₂ O ₅)	99.99	1-3 granule	2.10	350-8000	1950
1122G			3-5 granule			
1123G			5-12 granule			
1124T			10x3 tablet			

Oxides

Part#	Product Name	Purity (%)	Size (mm)	Reflective Index @500nm	Transmission Range(nm)	Evaporation Temperature (°C)
1141G	Titanium Monoxide (TiO)	99.9	0.3-3 granule	2.35	400-10000	1700-2200
1142G			1-3 granule			
1143G			3-5 granule			
1144T			9x8 tablet			
1145T			8x6 tablet			
1151G	Titanium Oxide (TiO ₂)	99.9	1-3 granule	2.35	400-10000	2200
1152G			3-5 granule			
1153T			8x6 tablet			
1154T			15x5 tablet			
1155T			18x6 tablet			
1156G	Titanium Oxide (TiO ₂)	99.99	1-3 granule	2.35	400-10000	2200
1157G		99.99	3-5 granule			
1158T		99.99	8x6 tablet			
1161G	Titanium (III) Oxide (Ti ₂ O ₃)	99.9	1-3 granule	2.40	400-12000	1800-2000
1162G			3-5 granule			
1163T			10x8 tablet			
1171G	Titanium (V) Oxide (Ti ₃ O ₅)	99.9	1-3 granule	2.30	400-12000	2200
1172G			3-5 granule			
1173T			10x8 tablet			
1181G	Tungsten Oxide (WO ₃)	99.99	1-3 granule	1.70	360-10000	1400
1182T			10x3 tablet			
1191G	Yttrium Oxide (Y ₂ O ₃)	99.99	1-4 granule	1.81	230-9000	2500
1192T			10x10 tablet			
1201G	Zirconium Oxide (ZrO ₂) gray color	99.9	1-3 granule	2.05	250-7000	2500
1202G			3-5 granule			
1203T			10x3 tablet			
1204T			15x7 tablet			
1205T			18x8 tablet			
1206T			22x10 tablet			
1207T			24x10 tablet			
1208T			27x10 tablet			
1209T			30x10 tablet			
1210G	ZrO ₂ black	99.9	1-3 granule	2.05	250-7000	2500
1211G	Zinc Oxide (ZnO)	99.9	1-3 granule	2.00	400-16000	
1211T			10x10 tablet			
1221G	Ytterbium Oxide (Yb ₂ O ₃)	99.99	1-5 granule			
1222G			10x10 tablet			

Fluorides

Part#	Product Name	Purity (%)	Size (mm)	Reflective Index @500nm	Transmission Range(nm)	Evaporation Temperature (°C)
2011G	Aluminum Fluoride (AlF ₃)	99.5	3-5 granule	1.62@550	200-5000	2000-2200
2012G		99.0	3-5 granule			
2021G	Barium Fluoride (BaF ₂)	99.9	1-3 granule	1.48@10600	220-11000	1280
2022G			3-5 granule			
2023T			5x3 tablet			
2031G	Calcium Fluoride (CaF ₂)	99.9	1-4 granule	1.23-1.42@550	150-12000	1280-1400
2032T			10x10 tablet			
2041G	Cerium Fluoride (CeF ₃)	99.99	0.7-3 granule	1.63	300-5000	1400-1600
2042G			3-5 granule			
2043G			5-10 granule			
2044T			10x10 tablet			
2051G	Lanthanum Fluoride (LaF ₃)	99.9	0.7-3 granule	1.58	240-14000	1450
2052G			3-5 granule			
2053G			5-10 granule			
2054T			10x10 tablet			
2061G	Magnesium Fluoride (MgF ₂)	99.99	1-3 granule	1.42@210nm, 1.38@550nm, 1.36@2800nm	130-7000	1300-1600
2062G			3-5 granule			
2063G			5-8 granule			
2064T			10x6 tablet			
2065T			18x9 tablet			
2071G	Cryolite (Na ₃ AlF ₆)	99.7	0.7-3 granule	1.33	250-14800	1000
2072G			3-5 granule			
2073G			5-10 granule			
2074T			10x10 tablet			
2081G	Neodymium Fluoride (NdF ₃)	99.9	1-3 granule	1.6	250-10000	900
2082G			3-5 granule			
2091G	Lead Fluoride (PbF ₂)	99.9	1-3 granule	1.76@470nm	220-9000	700-1000
2092G			3-5 granule			
2101G	Praseodymium Fluoride (PrF ₃)	99.9	1-3 granule	1.51@632nm	220-15000	1400-1600
2102G			3-5 granule			
2103T			10x10 tablet			
2110G	Yttrium Fluoride (YF ₃)	99.99	1-3 granule	1.49@632nm	200-15000	1000
2111G			3-5 granule			
2112T			10x10 tablet			
2122G	Ytterbium Fluoride (YbF ₃)	99.99	1-3 granule	1.5-1.56	220-12000	1400-1600
2123G			3-8 granule			

Mixtures

Part#	Product Name	Weight Ratio	Size (mm)
3001G	Aluminum Oxide/Magnesium Oxide (Al ₂ O ₃ /MgO)	50:50	1-3 granule
3002G		50:50	3-5 granule
3003T		50:50	10x10 tablet
3011G	Cerium Fluoride/Calcium Fluoride (CeF ₃ /CaF ₂)	50:50	1-3 granule
3012G		50:50	3-8 granule
3013G		50:50	10x10 tablet
3031G	ITO (Indium Tin Oxide)	95:5	1-3 granule
3032G		90:10	1-3 granule
3033G		85:15	1-3 granule
3034T		95:5	7x6 tablet
3035T		90:10	7x6 tablet
3036T		85:15	7x6 tablet
3041G	Lanthanum Oxide/Aluminum Oxide (La ₂ O ₃ /Al ₂ O ₃)	50:50	1-3 granule
3042G		50:50	3-5 granule
3043G		70:30	1-3 granule
3044G		70:30	3-5 granule
3051G	Titanium Oxide/Tantalum Oxide (TiO ₂ /Ta ₂ O ₅)	70:30	1-3 granule
3052T		70:30	10x4 tablet
3053G		80:20	1-3 granule
3054T		80:20	10x4 tablet
3055G		50:50	1-3 granule
3056T		50:50	10x4 tablet
3061G	Zirconium Oxide/Aluminum Oxide (ZrO ₂ /Al ₂ O ₃)	40:60	1-3 granule
3062G		40:60	3-5 granule
3063T		40:60	10x10 tablet
3091T	Zirconium Oxide/Titanium Oxide (ZrO ₂ /TiO ₂)	90:10	10x3 tablet
3092T		90:10	15x8 tablet
3093T		90:10	18x8 tablet
3094T		50:50	10x10 tablet
3095T		50:50	15x8 tablet
3101T	Zirconium Oxide/Tantalum Oxide (ZrO ₂ /Ta ₂ O ₅)	70:30	10x4 tablet
3102T		70:30	18x10 tablet
3103T		70:30	22x10 tablet

Infrared Crystals

Part#	Product Name	Transmission Wavelength	Size (mm)
5011G	Germanium mono-crystal	2~14μm	10~320(dia)
5012G	Silicon mono-crystal	2~10μm	10~320(dia)
5013G	Zinc Sulfide crystal	0.5~12μm	10~250(dia)
5014G	Zinc Selenide crystal	0.5~14μm	10~250(dia)

Others

Part#	Product Name	Purity	Size (mm)
4011W	Aluminum (Al)	99.99	0.5(dia)
4012W		99.99	1 (dia)
4013P		99.99	plate
4041G	Chromium (Cr)	99.99	1-3 granule
4042G		99.99	3-5 granule
4043G		99.99	5-9 granule
4051G	Germanium (Ge)	99.99	2-4 granule
4052G		99.99	4-12 granule
4051W	Nickel & Chromium Wire (Ni/Cr) 80:20	99.99	1 (dia)
4061G	Silicon (Si)	99.999	3-5 granule
4062G		99.999	5-8 granule
4071W	Molybdenum (Mo)	99.99	1 (dia)
4072W		99.99	2 (dia)
4073W		99.99	3 (dia)
4081W	Tungsten (W)	99.95	1 (dia)
4101G	Zinc Sulfide (ZnS)	99.99	2-5 granule
4102G		99.99	5-9 granule
4103G		99.99	15-20 granule
4104T		99.99	5x5 tablet
4105T		99.99	10x3 tablet
4106T		99.99	12x6 tablet
4107C		99.99	chucks
4111G	Zinc Selenide (ZnSe)	99.99	1-3 granule
4112G		99.99	3-5 granule
4113G		99.99	5-8 granule
4121P	Titanium (Ti) Powder	99.7	<325mesh
4131P	Titanium Oxide (TiO ₂) Powder	99.9	<325mesh
4132P		99.99	<325mesh

Note: other forms/sizes are available,or can be manufactured on request



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