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THIN FILM COATING MATERIALS

QUALITY

CONSISTENCY

INNOVATION

Nivo Technology

Company

Nivo Technology, Inc. is a leading evaporation chemical manufacturer for thin film coating. We have developed a range of high quality products suitable for vacuum coating. Our products include a full line of oxides, fluorides, compounds and metals.

Applications

Anti-reflection coating, interference coating, conductive film coating, protective coating,

UV coating, IR coating, anti-static coating, decorative coating, single layer, multi-layer coating, mirror, bandpass filter coating.

Quality Assurance

The quality of our products is guaranteed by our manufacturing processes, and online quality controls. Raw materials are analyzed before production to confirm the purity. Testing is done on each batch to ensure batch-to-batch consistency. Application testing is done to exam the performance of the material in evaporation processes before the products are released for sale.



Product: 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			

Product: 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			
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	1.90	2100	2100
1222G			10x10 tablet			

Product: 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			
2064T			10x6 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			

Product: Accessories

Part#	Product Name	Type
7011G	6Mhz Quartz Crystal	Gold, Silver, Alloy
7012G	5Mhz Quartz Crystal	Gold, Silver, Alloy
7013G	Ion Gun Filament	Mark I, Mark II
7014G	E-Beam Gun Filament	7.5 Turns, etc

Product: Compounds

Part#	Product Name	Size (mm)	Reflective Index @500nm	Transmission Range(nm)	Evaporation Temperature (°C)
3011G	Aluminum Oxide/Magnesium Oxide	3-5 granule	1.7		
3012G		3-5 granule			
3013T		10x10 tablet			
3021G	Cerium Fluoride/Calcium Fluoride	1-3 granule	1.3		
3022G		3-5 granule			
3031G	Lanthanum Oxide/Aluminum Oxide	1-4 granule	2.1		
3032G		10x10 tablet			
3041G	Titanium Oxide/Tantalum Oxide	0.7-3 granule	2.3	9000-11000	2000-2200
3042G		3-5 granule			
3051G	ITO (Indium Tin Oxide)	1-12 granule	2.00	340-9000	1450
3052T		6x8 tablet			
3053T		10x3 tablet			
3061G	Zirconium Oxide/Aluminum Oxide	1-3 granule	1.7	300-9000	2100-2200
3062G		3-5 granule			
3064T		10x6 tablet			
3071G	Zirconium Oxide/Tantalum Oxide	0.7-3 granule	2.1		
3072G		3-5 granule			
3081G	Zirconium Oxide/Titanium Oxide	1-3 granule	2.1	400-7000	2300
3082G		3-5 granule			

Note: weight ratio will be based on customer requirement

Product: Metal and Others

Part#	Product Name	Purity	Size (mm)
4011W	Aluminum (Al)	99.99	0.5-1(dia)
4013P		99.99	plate
4041G	Chromium (Cr)	99.99	1-3 granule
4042G		99.99	3-5 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	1-3 (dia)
4073P		99.99	plate
4081W	Tungsten (W)	99.95	1 (dia)
4101G	Zinc Sulfide (ZnS)	99.99	1-12 granule
4103G		99.99	15-20 granule
4104T		99.99	5x5 tablet
4107C		99.99	chucks
4111G	Zinc Selenide (ZnSe)	99.99	1-3 granule
4112G		99.99	3-5 granule

Material Property

Product Name	Formula	Reflective Index @500nm	Transmission Range(nm)	Evaporation Temperature (°C)
Aluminum Oxide	Al ₂ O ₃	1.63@550	200-5000	2000-2200
Barium Fluoride	BaF ₂	1.48	250-15000	1300-1500
Calcium Fluoride	CaF ₂	1.23@550	150-12000	1280-1400
Cerium Fluoride	CeF ₃	1.63	300-5000	1400-1600
Cerium Oxide	CeO ₂	2.0@550	400-16000	1950-2050
Cryolite	Na ₃ AlF ₆	1.33	250-14000	800-1200
Gadolinium Oxide	Gd ₂ O ₃	1.8@550	320-15000	2200
Germanium	Ge	4.4/2u	17000-23000	1300-1500
Hafnium Oxide	HfO ₂	1.9	230-7000	2300-2500
ITO	ITO	2.0	400-800	1560
Lanthanum Fluoride	LaF ₃	1.6	220-14000	1200-1600
Magnesium Fluoride	MgF ₂	1.38@550	200-7000	1300-1600
Neodymium Fluoride	NdF ₃	1.6	170-14000	1200-1600
Neodymium Oxide	Nd ₂ O ₃	1.8@550	400-2000	2270
Niobium Oxide	Nb ₂ O ₅	2.3@550	350-9000	1530
Praseodymium Fluoride	PrF ₃	1.51@632.8	220-15000	1400-1600
Scandium Oxide	Sc ₂ O ₃	1.89	250-5000	2430
Silicon	Si	3.4/3u	10000-90000	15000
Silicon Monoxide	SiO	1.8@1000	850-8000	1200-1600
Silicon Oxide	SiO ₂	1.46	210-2000	1800-2200
Tantalum oxide	Ta ₂ O ₅	2.1	360-7200	1950
Titanium III Oxide	Ti ₂ O ₃	2.35	400-12000	1800-2000
Titanium Monoxide	TiO	2.35	400-12000	2200
Titanium Oxide	TiO ₂	2.35	400-12000	1700-2000
Titanium V Oxide	Ti ₃ O ₅	2.35	400-12000	1750-2000
Ytterbium Fluoride	YbF ₃	1.5-1.56	220-12000	1150
Yttrium Fluoride	YF ₃	1.3@10600	200-13500	1100
Yttrium Oxide	Y ₂ O ₃	1.79	270-8000	2500
Zinc Selenide	ZnSe	2.58@550	600-15000	600-900
Zinc Sulfide	ZnS	2.4@550	400-14000	1100
Zirconium Oxide	ZrO ₂	2.05	300-7000	2500

Nivo Technology



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