

SPUTTERING TARGETS

Princeton Scientific Corp. offers Sputtering targets made of - Metals, non-metals and chemical compounds with purities ranging from 99.9% to 99.9999%.

We offer standard, single element, pure metals and custom compounds. We also have various geometric shapes: round, rectangular, as well as multi-tile and stepped constructions are possible.

Please review our standard and specialty target list for more information. Princeton Scientific can produce sputtering targets to your specific needs. We will help to select appropriate target material, fabrication process, and bonding assembly that ensures the success of your thin film deposition process. Our Sputter targets are prepared either by a melt- or a powder metallurgical process.

We also provide an assorted array of backing plates for your systems requirements. Also, our bonding services include various metallic or silver epoxy techniques.



BORIDES	CARBIDES	FLUORIDES	NITRIDES	SILICIDES
CrB2	B4C	AlF3	AlN	CrSi2
HfB2	Cr3C2	BaF2	BN	Cr3Si
LaB6	HfC	CaF2	HfN	HfSi2
Mo2B6	Mo2C	CeF3	NbN	MoSi2
NbB2	NbC	LaF3	Si3N4	NbSi2
TaB2	SiC	PbF2	TaN	PtSi
TiB2	TaC	LiF	TiN	TaSi2
WB	TiC	MgF2	VN	Ta5Si3
W2B	WC	KF	ZrN	TiSi2
VB2	WC 6%Co	Re/NaF	and others	Ti5Si3
ZrB2	WC 12%Co	Na3AlF6		WSi2
and others	VC	ThF4		VSi2
	ZrC	YF3		V3Si
	and others	and others		ZrSi2
				and others

SULFIDES / SELENIDES / TELLURIDES				
As2S3	PbS	NbSe2	TaTe2	ZnS
CdSe	PbTe	Nb - S	WSe2	ZnTe
CdS	MoSe2	NbTe2	WS2	and others
CdTe	MoS2	TaSe2	WTe2	
PbSe	MoTe2	TaS2	ZnSe	



METALS

Aluminium	Chromium	Lead	Platinum	Tantalum
Antimony	Cobalt	Lithium	Potassium	Tellurium
Barium	Gallium	Magnesium	Rhenium	Tin
Beryllium	Germanium	Manganese	Rhodium	Titanium
Bismuth	Gold	Molybdenum	Rubidium	Tungsten
Boron	Hafnium	Niobium	Ruthenium	Vanadium
Cadmium	Indium	Nickel	Selenium	Zinc
Calcium	Iridium	Osmium	Silicon	Zirconium
Carbon	Iron	Palladium	Strontium	

RARE EARTH

Cerium	Gadolinium	Neodymium	Terbium	Various Rare
Dysprosium	Holmium	Praseodymium	Thulium	Earth Alloys
Erbium	Lutetium	Samarium	Ytterbium	
Europium	Lanthanum	Scandium	Yttrium	

ALLOYS

Al/B	Au/Pd	Co/Ni	Ge/Si	Pt/Ru
Al/Cu	Au/Pt	Co/Ta/Zr	Ge/Te	Pt/Ag
Al/Cu/Si	Au/Sn	Cr/SiO ₂ Cermet	In/Sn	Sb/In
Al/Cr	Au/Zn	Cu/Al	Ir/Mn	Sb/In/Sn
Al/Li	Bi/Sb	Cu/Cr	Ni/Cr	Si/Al
Al/Mg	Bi/Sb /Se	Cu/Ga	Ni/Fe	Si/Cr
Al/Si	Bi/Sb/Se/Te	Cu/Ni	Ni/Ti	Ta/Ti
Al/Ti	Bi/Sb /Te	Cu/Sn	Ni/V	Ti/Al
Au/Sb	Bi/Se	Fe/Al/Si	Ni/Zr	Ti/W
Au/Ag	Bi/Te	Fe/Cr	Os/Ru	Ti/Zr
Au/B	Cd/Te	Fe/Mn	Pb/Se	W/Ti
Au/Be	Co/Cr	Fe/Ru/Ga/Si	Pb/Te	Zn/Al
Au/Ge	Co/Fe	Fe/Si	Pb/Se/Te	Zr/Y
Au/Ir	Co/Nb/Zr	PFe/Si/B/C	Pd/Pt	And others

OXIDES

Al ₂ O ₃	CuO	PbZrO ₃	Supercond.	Y ₂ O ₃
Sb ₂ O ₃	HfO ₂ unstab.	LiNbO ₃	SrO	ZnO
BaTiO ₃	HfO ₂ /CaO	MgO	SrTiO ₃	ZnO dop.
Bi ₂ O ₃	HfO ₂ /Y ₂ O ₃	MoO ₃	SrZrO ₃	ZrO ₂ unstab.
Bi ₂ TiO ₅	In ₂ O ₃	Nb ₂ O ₃	Ta ₂ O ₅	ZrO ₂ /CaO
Bi ₄ Ti ₃ O ₁₂	ITO	Nb ₂ O ₅	ThO ₂	ZrO ₂ /Y ₂ O ₃
BiTiO ₃	LaAlO ₃	Re ₂ O ₃	SnO ₂	and others
CeO ₂	La ₂ O ₃	SiO ₂	TiO ₂	
CrO ₃	PbTiO ₃	SiO	WO ₃	

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