






























































Materials	Composition	Sputtering Targets	E-Beam Sources	Evap. Mat'ls	Purities	MSDS
METALS						
ALUMINUM	Al	x	x	x	99.99-99.9999%	
ANTIMONY	Sb	x	x	x	99.999-99.99999%	
ARSENIC	As			x	99, 99.999%	
BARIUM	Ba	x		x	99.5%	
BERYLLIUM	Be	x	x	x	98- 99.9%	
BISMUTH	Bi	x	x	x	99.9, 99.999%	
BORON	B		x	x	99.5%	
CADMIUM	Cd	x	x	x	99.999%	
CALCIUM	Ca			x	99.5%	
CARBON	C	x	x	x	99.999%	
CERIUM	Ce	x		x	99.9%	
CESIUM	Cs			x	99.95%	
CHROMIUM	Cr	x	x	x	99.95%	
COBALT	Co	x	x	x	99.9%	
COPPER	Cu	x	x	x	99.99, 99.999%	
DYSPROSIUM	Dy			x	99.9%	
ERBIUM	Er			x	99.9%	
GADOLINIUM	Gd			x	99.9%	
GALLIUM	Ga			x	99.999, 99.9999%	
GERMANIUM	Ge	x	x	x	99.999%	
GOLD	Au	x	x	x	99.99, 99.999%	
HAFNIUM	Hf	x	x	x	99.9%	
HOLMIUM	Ho			x	99.9%	
INDIUM	In	x	x	x	99.99-99.9999%	
IRIDIUM	Ir	x	x	x	99.9%	
IRON	Fe	x	x	x	99.9 99.95%	
LANTHANUM	La			x	99.9%	
LEAD	Pb	x	x	x	99.995%	
MAGNESIUM	Mg	x	x	x	99.95%	
MANGANESE	Mn	x	x	x	99.9%	

MANGANESE	Mn	x	x	x	99.9%	
MOLYBDENUM	Mo	x	x	x	99.95%	
NEODYMIUM	Nd	x	x	x	99.9%	
NICKEL	Ni	x	x	x	99.7, 99.995%	
NIOBIUM	Nb	x	x	x	99.95%	
PALLADIUM	Pd	x	x	x	99.95%	
PLATINUM	Pt	x	x	x	99.99%	
PRASEODYMIUM	Pr	x	x	x	99.9%	
RHENIUM	Re	x	x	x	99.9%	
RUBIDIUM	Rb	x	x	x	99.8%	
RUTHENIUM	Ru	x	x	x	99.9%	
SAMARIUM	Sm			x	99.9%	
SCANDIUM	Sc			x	99.9%	
SELENIUM	Se	x	x	x	99.999- 99.9999%	
SILICON	Si	x	x	x	99.999%	
SILVER	Ag	x	x	x	99.99%	
STRONTIUM	Sr			x	99.5%	
TANTALUM	Ta	x	x	x	99.95%	
TELLURIUM	Te	x	x	x	99.999%	
TERBIUM	Tb			x	99.9%	
THALLIUM	Tl			x	99.9%	
THORIUM	Th			x	99.8%	
THULIUM	Tm			x	99.9%	
TIN	Sn	x	x	x	99.99%	
TITANIUM	Ti	x	x	x	99.7- 99.995%	
TUNGSTEN	W	x	x	x	99.95%	
VANADIUM	V	x	x	x	99.9%	
YTTERBIUM	Yb	x	x	x	99.9%	
YTTRIUM	Y	x	x	x	99.9%	
ZINC	Zn	x	x	x	99.99, 99.995%	
ZIRCONIUM	Zr	x	x	x	99.7%	
ALLOYS						
ALUMINUM - CHROMIUM	(Al)X (Cr)1-X	x	x	x	99.99%	
ALUMINUM - COBALT	(Al)X (Co)1-X	x	x	x	99.95%	
ALUMINUM- COPPER	(Al)X (Cu)1-X	x	x	x	99.9- 99.9999%	
ALUMINUM - IRON	(Al)X (Fe)1-X	x	x	x	99.99%	
ALUMINUM - SILICON	(Al)X (Si)1-X	x	x	x	99.9- 99.9999%	
ALUMINUM - SILICON - COPPER	(Al)X (Si)Y (Cu)Z	x	x	x	99.9- 99.9999%	
ALUMINUM - TITANIUM	(Al)50 (Ti)50	x	x	x	99.95%	
CHROMIUM - SILICON MONOXIDE	(Cr)X (SiO)1- X	x	x	x	99.9%	
CHROMIUM - NICKEL	(Cr)X(Ni)1-X	x	x	x	99.9%	
CHROMIUM - COBALT	(Cr)X(Co)1-X	x	x	x	99.5%	
CHROMIUM - COBALT - NICKEL	(Cr)X (Co)Y (Ni)Z	x	x	x	99.5%	
COBALT - NICKEL	(Co)X(Ni)1-X	x	x	x	99.5%	
IRON - NICKEL (PERMALLOY)	(Fe)19 (Ni)81	x	x	x	99.9%	
INDIUM - TIN	(In)X (Sn)1-X	x	x	x	99.99, 99.999%	
NICKEL - VANADIUM	(Ni)93 (V)07	x	x	x	99.95%	
TITANIUM - TUNGSTEN	(Ti)10 (W)90	x	x	x	99.99%	

TITANIUM - TUNGSTEN	(Ti)15 (W)85	x	x	x	99.99%	
SUPERCONDUCTING ALLOYS						
YTTRIUM - BARIUM COPPER OXIDE	1-2-3		x	x	99.9-99.999%	
BISMUTH - CALCIUM - STRONTIUM - COPPER OXIDE	2-2-2-3		x	x	99.9-99.999%	
BISMUTH - LEAD - CALCIUM - STRONTIUM - COPPER OXIDE	1.94-0.06-2-2-3		x	x	99.9-99.999%	
THALLIUM - BARIUM - CALCIUM - COPPER OXIDE	2-2-2-3		x	x	99.9-99.999%	
ERBIUM - BARIUM - COPPER OXIDE	1-2-3		x	x	99.9-99.999%	
BORIDES						
ALUMINUM BORIDE	AlB <sub>2</sub>	x	x	x	99%	
CHROMIUM BORIDE	CrB <sub>2</sub>	x	x	x	99.5%	
HAFNIUM BORIDE	HfB <sub>2</sub>	x	x	x	99.5%	
LANTHANUM BORIDE	LaB <sub>6</sub>	x	x	x	99.5%	
MOLYBDENUM BORIDE	Mo <sub>2</sub> B <sub>5</sub> , MoB <sub>2</sub>	x	x	x	99.5%	
NIObIUM BORIDE	NbB <sub>2</sub>	x	x	x	99.5%	
TANTALUM BORIDE	TaB <sub>2</sub>	x	x	x	99.5%	
TITANIUM BORIDE	TiB <sub>2</sub>	x	x	x	99.5%	
TUNGSTEN BORIDE	WB, W <sub>2</sub> B	x	x	x	99.5%	
VANADIUM BORIDE	VB <sub>2</sub>	x	x	x	99.5%	
ZIRCONIUM BORIDE	ZrB <sub>2</sub>	x	x	x	99.5%	
CARBIDES						
BORON CARBIDE	B <sub>4</sub> C	x	x	x	99.5%	
CHROMIUM CARBIDE	Cr <sub>3</sub> C <sub>2</sub>	x	x	x	99.5%	
HAFNIUM CARBIDE	HfC	x	x	x	99.5%	
MOLYBDENUM CARBIDE	MoC	x	x	x	99.5%	
NIObIUM CARBIDE	NbC	x	x	x	99.5%	
SILICON CARBIDE	SiC	x	x	x	99.5%	
TANTALUM CARBIDE	TaC	x	x	x	99.5%	
TITANIUM CARBIDE	TiC	x	x	x	99.5%	
TUNGSTEN CARBIDE	WC	x	x	x	99.95%	
VANADIUM CARBIDE	VC	x	x	x	99.5%	
ZIRCONIUM CARBIDE	ZrC	x	x	x	99.5%	
FLUORIDES						
ALUMINUM FLUORIDE	AlF <sub>3</sub>	x	x	x	99.5%	
BARIUM FLUORIDE	BaF <sub>2</sub>	x	x	x	99.9%	
CALCIUM FLUORIDE	CaF <sub>2</sub>	x	x	x	99.9%	
CERIUM FLUORIDE	CeF <sub>3</sub>	x	x	x	99.9%	
LANTHANUM FLUORIDE	LaF <sub>3</sub>	x	x	x	99.9%	
LEAD FLUORIDE	PbF <sub>2</sub>	x	x	x	99.9%	
LITHIUM FLUORIDE	LiF	x	x	x	99.9%	
MAGNESIUM FLUORIDE	MgF <sub>2</sub>	x	x	x	99.9%	
SODIUM FLUORIDE	NaF	x	x	x	99.9%	
STRONTIUM FLUORIDE	SrF <sub>2</sub>	x	x	x	99.9%	
THORIUM FLUORIDE	ThF <sub>4</sub>	x	x	x	99.9%	
YTTRIUM FLUORIDE	YF <sub>3</sub>	x	x	x	99.9%	
NITRIDES						
ALUMINUM NITRIDE	AlN	x	x	x	99.5%	

BORON NITRIDE	BN	x	x	x	99.5%	
HAFNIUM NITRIDE	HfN	x	x	x	99.5%	
SILICON NITRIDE	Si <sub>3</sub> N <sub>4</sub>	x	x	x	99.9%	
TANTALUM NITRIDE	TaN	x	x	x	99.5%	
TITANIUM NITRIDE	TiN	x	x	x	99.5%	
VANADIUM NITRIDE	VN	x	x	x	99.5%	
ZIRCONIUM NITRIDE	ZrN	x	x	x	99.5%	
OXIDES						
ALUMINUM OXIDE	Al <sub>2</sub> O <sub>3</sub>	x	x	x	99.99%	
ANTIMONY OXIDE	Sb <sub>2</sub> O <sub>3</sub>	x	x	x	99.99%	
BARIUM TITANATE	BaTiO <sub>3</sub>	x	x	x	99.9%	
BERYLLIUM OXIDE	BeO	x	x	x	99.5%	
BISMUTH OXIDE	Bi <sub>2</sub> O <sub>3</sub>	x	x	x	99.9%	
BISMUTH TITANATE	Bi <sub>4</sub> TiO <sub>3</sub>	x	x	x	99.9%	
CERIUM OXIDE	CeO <sub>2</sub>	x	x	x	99.99%	
CHROMIUM OXIDE	Cr <sub>2</sub> O <sub>3</sub>	x	x	x	99.9%	
DYSPROSIUM OXIDE	Dy <sub>2</sub> O <sub>3</sub>	x	x	x	99.9%	
ERBIUM OXIDE	Er <sub>2</sub> O <sub>3</sub>	x	x	x	99.9%	
EUROPIUM OXIDE	Eu <sub>2</sub> O <sub>3</sub>	x	x	x	99.5%	
GALLIUM OXIDE	Ga <sub>2</sub> O <sub>3</sub>	x	x	x	99.999%	
GERMANIUM OXIDE	GeO <sub>2</sub>	x	x	x	99.999%	
HAFNIUM OXIDE	HfO <sub>2</sub>	x	x	x	99.9%	
HOLMIUM OXIDE	Ho <sub>2</sub> O <sub>3</sub>	x	x	x	99.9%	
INDIUM OXIDE	In <sub>2</sub> O <sub>3</sub>	x	x	x	99.99%	
INDIUM TIN OXIDE	(In <sub>2</sub> O <sub>3</sub> )X (SnO <sub>2</sub> )1-X	x	x	x	99.99%	
IRON OXIDE	Fe <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>4</sub>	x	x	x	99.5- 99.9%	
LANTHANUM OXIDE	La <sub>2</sub> O <sub>3</sub>	x	x	x	99.99%	
LEAD TITANATE	PbTiO <sub>3</sub>	x	x	x	99.9%	
MAGNESIUM OXIDE	MgO	x	x	x	99.95%	
MANGANESE OXIDE	MnO, MnO <sub>2</sub> , Mn <sub>2</sub> O <sub>3</sub>	x	x	x	99.9%	
MOLYBDENUM OXIDE	MoO <sub>2</sub> , MoO <sub>3</sub>	x	x	x	99.9%	
NEODYMIUM OXIDE	Nd <sub>2</sub> O <sub>3</sub>	x	x	x	99.9%	
NICKEL OXIDE	NiO	x	x	x	99.9%	
NIOBIUM OXIDE	Nb <sub>2</sub> O <sub>5</sub>	x	x	x	99.95%	
PRASEODYMIUM OXIDE	Pr <sub>2</sub> O <sub>3</sub>	x	x	x	99.9%	
SAMARIUM OXIDE	Sm <sub>2</sub> O <sub>3</sub>	x	x	x	99.9%	
SILICON DIOXIDE	SiO <sub>2</sub>	x	x	x	99.995%	
SILICON MONOXIDE	SiO	x	x	x	99.9%	
STRONTIUM OXIDE	SrO	x	x	x	99.5%	
STRONTIUM TITANATE	SrTiO <sub>3</sub>	x	x	x	99.9%	
TANTALUM OXIDE	Ta <sub>2</sub> O <sub>5</sub>	x	x	x	99.9%	
THORIUM OXIDE	ThO <sub>2</sub>	x	x	x	99.9%	
TIN OXIDE	SnO <sub>2</sub>	x	x	x	99.9%	
TIN OXIDE - ANTIMONY OXIDE	SnO <sub>2</sub> - Sb <sub>2</sub> O <sub>3</sub>	x	x	x	99.9%	
TITANIUM OXIDE	TiO <sub>2</sub> , Ti <sub>2</sub> O <sub>3</sub>	x	x	x	99.9%	
TUNGSTEN OXIDE	WO <sub>3</sub>	x	x	x	99.9%	
YTRITIUM OXIDE	Y <sub>2</sub> O <sub>3</sub>	x	x	x	99.9%	
ZINC OXIDE	ZnO	x	x	x	99.9%	

ZIRCONIUM OXIDE	ZrO <sub>2</sub>	x	x	x	99.99%	
					99.9%	
SELENIDES						
CADMIUM SELENIDE	CdSe	x	x	x	99.995%	
LEAD SELENIDE	PbSe	x	x	x	99.95%	
MOLYBDENUM SELENIDE	MoSe <sub>2</sub>	x	x	x	99.9%	
NIOBIUM SELENIDE	NbSe <sub>2</sub>	x	x	x	99.8%	
TANTALUM SELENIDE	TaSe	x	x	x	99.4%	
TUNGSTEN SELENIDE	WSe <sub>2</sub>	x	x	x	99.8%	
ZINC SELENIDE	ZnSe	x	x	x	99.9%	
SILICIDES						
ALUMINUM SILICIDE	AlSi <sub>2</sub>	x	x	x	99.5%	
CHROMIUM SILICIDE	CrSi <sub>2</sub> , Cr <sub>3</sub> Si	x	x	x	99.5%	
COBALT SILICIDE	CoSi <sub>2</sub>	x	x	x	99.5%	
HAFNIUM SILICIDE	HfSi <sub>2</sub>	x	x	x	99.5%	
IRON SILICIDE	FeSi <sub>2</sub>	x	x	x	99.5%	
MOLYBDENUM SILICIDE	MoSi <sub>2</sub>	x	x	x	99.5%	
NIOBIUM SILICIDE	NbSi <sub>2</sub>	x	x	x	99.5%	
TANTALUM SILICIDE	TaSi <sub>2</sub> , TaSi <sub>3</sub>	x	x	x	99.5%	
TITANIUM SILICIDE	Ti <sub>5</sub> Si <sub>2</sub> , TaSi <sub>3</sub>	x	x	x	99.9%	
TUNGSTEN SILICIDE	WSi <sub>2</sub>	x	x	x	99.9%	
VANADIUM SILICIDE	VSi <sub>2</sub> , V <sub>3</sub> Si	x	x	x	99.5%	
ZIRCONIUM SILICIDE	ZrSi <sub>2</sub>	x	x	x	99.5%	
SULFIDES						
ARSENIC SULFIDE	As <sub>2</sub> S <sub>3</sub>	x	x	x	99.9%	
CADMIUM SULFIDE	CdS	x	x	x	99.99%	
INDIUM SULFIDE	In <sub>2</sub> S <sub>3</sub>	x	x	x	99.99%	
LEAD SULFIDE	PbS	x	x	x	99.9%	
MOLYBDENUM SULFIDE	MoS <sub>2</sub>	x	x	x	99%	
TANTALUM SULFIDE	TaS <sub>2</sub>	x	x	x	99.9%	
TUNGSTEN SULFIDE	WS <sub>2</sub>	x	x	x	99.8%	
ZINC SULFIDE	ZnS	x	x	x	99.99%	
ZIRCONIUM SULFIDE	ZrS <sub>2</sub>	x	x	x	99.9%	
TELLURIDES						
CADMIUM TELLURIDE	CdTe	x	x	x	99.99%	
LEAD TELLURIDE	PbTe	x	x	x	99.99%	
MOLYBDENUM TELLURIDE	MoTe <sub>2</sub>	x	x	x	99.9%	
NIOBIUM TELLURIDE	NbTe <sub>2</sub>	x	x	x	99.8%	
TANTALUM TELLURIDE	TaTe <sub>2</sub>	x	x	x	99.8%	
TUNGSTEN TELLURIDE	WTe <sub>2</sub>	x	x	x	99.8%	
ZINC TELLURIDE	ZnTe	x	x	x	99.99%	

Supported systems: Airco Temescal, Alcatel/Comtech, Anelva, Angstrom Sciences, Applied Materials, Balzers, BOC, Bosch Engineering, CHA, Commonwealth, CPA, CVC, Edwards, Gryphon, Innotec, Ion Tech, Korea Vacuum Kurdex, Kurt J. Lesker Company, Leybold, MARK IV, MDC, MRC (except inset), Nordiko, Perkin-Elmer, Sloan, Sun Source, Telemark, Thermionics, Ulvac, Unaxis, Unaxis, U.S., Inc., Varian (except ConMagII) Veeco, and Customer Designed.

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