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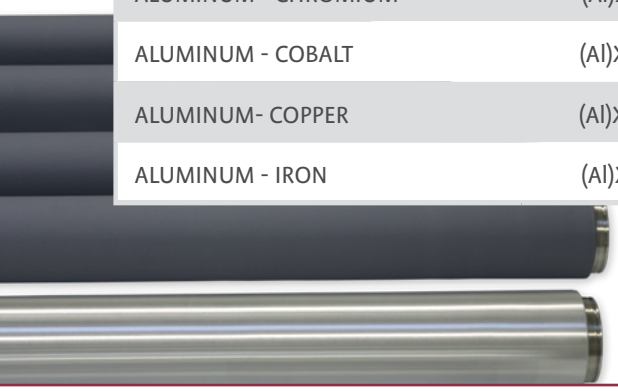
A VITAL GROUP COMPANY

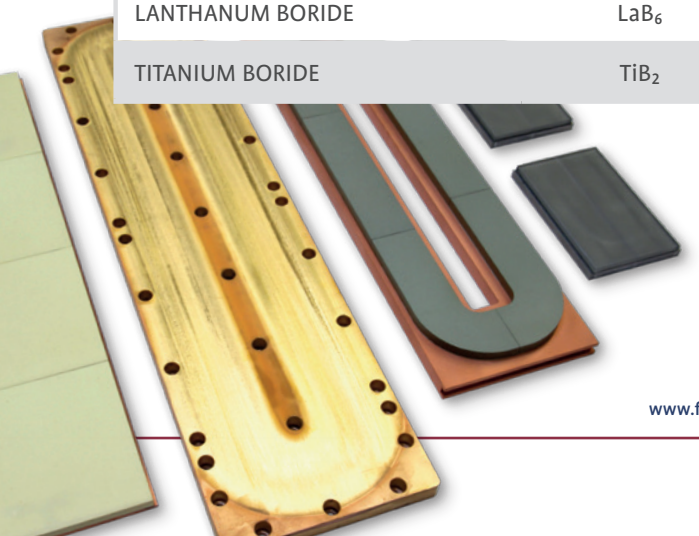
Our coating materials

MATERIALS	COMPOSITION	PLANAR TARGETS	ROTARY TARGETS	PURITIES
METALS				
ALUMINUM	Al	x	x	99.99- 99.9995 %
ANTIMONY	Sb	x		99.99- 99.999 %
BISMUTH	Bi	x		99.5, 99.999 %
BORON	B	x		99.9 %
CARBON	C	x		99.5, 99.999 %
CERIUM	Ce	x		99.9, 99.99 %
CHROMIUM	Cr	x	x	99.8- 99.98 %
COBALT	Co	x		99.8 %
COPPER	Cu	x	x	99.9, 99.9999 %
ERBIUM	Er	x		99.9 %
GERMANIUM	Ge	x		99.5, 99.999 %
GOLD	Au	x	x	99.99, 99.999 %
HAFNIUM	Hf	x		99.9 %
HOLMIUM	Ho	x		99.9 %
INDIUM	In	x	x	99.99- 99.9999 %
IRIDIUM	Ir	x		99.95, 99.99 %
IRON	Fe	x		99.9 %
MAGNESIUM	Mg	x		99.9, 99.99 %
MANGANESE	Mn	x		99.9 %
MOLYBDENUM	Mo	x	x	99.95 %
NICKEL	Ni	x		99.7, 99.995 %
NIOBIUM	Nb	x	x	99.95 %

MATERIALS	COMPOSITION	PLANAR TARGETS	ROTARY TARGETS	PURITIES
METALS				
PALLADIUM	Pd	x		99.95 %
PLATINUM	Pt	x		99.99 %
RHENIUM	Re	x		99.99 %
RUTHENIUM	Ru	x		99.9 %
SCANDIUM	Sc	x		99.9 %
SILICON	Si	x	x	99.99, 99.9999 %
SILVER	Ag	x	x	99.9, 99.99 %
TANTALUM	Ta	x	x	99.95 %
TERBIUM	Tb	x		99.9 %
TIN	Sn	x	x	99.99, 99.999 %
TITANIUM	Ti	x	x	99.7- 99.995 %
TUNGSTEN	W	x		99.95 %
VANADIUM	V	x		99.8 %
YTTRIUM	Y	x		99.9 %
ZINC	Zn	x		99.99 %
ZIRCONIUM	Zr	x		99.8 %
ALLOYS				
ALUMINUM - CHROMIUM	(Al)X (Cr)1-X	x	x	99.99 %
ALUMINUM - COBALT	(Al)X (Co)1-X	x		99.95 %
ALUMINUM- COPPER	(Al)X (Cu)1-X	x	x	99.95 %
ALUMINUM - IRON	(Al)X (Fe)1-X	x		99.99 %



MATERIALS	COMPOSITION	PLANAR TARGETS	ROTARY TARGETS	PURITIES
ALLOYS				
ALUMINUM - SILICON	(Al)X (Si)1-X	x	x	99.5- 99.95 %
ALUMINUM - SILICON - COPPER	(Al)X (Si)Y (Cu)Z	x		99.5- 99.95 %
ALUMINUM-MAGNESIUM - SILICON	(Al)X (Mg)Y (Si)Z	x		99.5- 99.95 %
ALUMINUM - TITANIUM	(Al)50 (Ti)50	x		99.95 %
CHROMIUM - NICKEL	(Cr)X(Ni)1-X	x	x	99.9 %
CHROMIUM - COBALT	(Cr)X(Co)1-X	x		99.95 %
CHROMIUM - COBALT - NICKEL	(Cr)X (Co)Y (Ni)Z	x		99.95 %
COBALT - NICKEL	(Co)X(Ni)1-X	x		99.95 %
IRON - NICKEL (PERMALLOY)	(Fe)19 (Ni)81	x		99.9 %
INDIUM - TIN	(In)X (Sn)1-X	x	x	99.9- 99.995 %
NICKEL - VANADIUM	(Ni)93 (V)07	x	x	99.5- 99.95 %
TITANIUM - TUNGSTEN	(Ti)10 (W)90	x		99.9, 99.995 %
TITANIUM - TUNGSTEN	(Ti)15 (W)85	x		99.9, 99.995 %
YTTRIUM - BARIUM COPPER OXIDE		x		99.9, 99.995 %
BORIDES				
ALUMINUM BORIDE	AlB_2	x		99 %
LANTHANUM BORIDE	LaB_6	x		99.5 %
TITANIUM BORIDE	TiB_2	x		99.5 %



MATERIALS	COMPOSITION	PLANAR TARGETS	ROTARY TARGETS	PURITIES
KARBIDES				
BORON CARBIDE	B_4C	x		99.5 %
CHROMIUM CARBIDE	Cr_3C_2	x		99.5 %
MOLYBDENUM CARBIDE	MoC	x		99.5 %
NIOBIUM CARBIDE	NbC	x		99.5 %
SILICON CARBIDE	SiC	x		99.5, 99.9 %
TANTALUM CARBIDE	TaC	x		99.5 %
TITANIUM CARBIDE	TiC	x		99.5 %
TUNGSTEN CARBIDE	WC	x		99.5 %
VANADIUM CARBIDE	VC	x		99.5 %
ZIRCONIUM CARBIDE	ZrC	x		99.5 %
NITRIDES				
ALUMINUM NITRIDE	AlN	x		99, 99.8 %
BORON NITRIDE	BN	x		97.5, 99.9 %
HAFNIUM NITRIDE	HfN	x		99.5 %
SILICON NITRIDE	Si_3N_4	x		98, 99.9 %
TANTALUM NITRIDE	TaN	x		99.5 %
TITANIUM NITRIDE	TiN	x		99.5 %
VANADIUM NITRIDE	VN	x		99.5 %
ZIRCONIUM NITRIDE	ZrN	x		99.5 %

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MATERIALS	COMPOSITION	PLANAR TARGETS	ROTARY TARGETS	PURITIES
OXIDES				
ALUMINUM OXIDE	Al_2O_3	x		99.99 %
ANTIMONY OXIDE	Sb_2O_3	x		99.99 %
BARIUM TITANATE	$BaTiO_3$	x		99.9 %
BISMUTH OXIDE	Bi_2O_3	x		99.9 %
BISMUTH TITANATE	Bi_4TiO_3	x		99.9 %
CERIUM OXIDE	CeO_2	x		99.99 %
GALLIUM OXIDE	Ga_2O_3	x		99.99- 99.999 %
HAFNIUM OXIDE	HfO_2	x		99.9 %
INDIUM OXIDE	$In2O_3$	x		99.95- 99.999 %
INDIUM TIN OXIDE	$(In_2O_3)X\ (SnO_2)1\text{-}X$	x	x	99.95- 99.999 %
IRON OXIDE	Fe_2O_3, Fe_2O_4	x		99.5- 99.9 %
MAGNESIUM OXIDE	MgO	x		99.5- 99.95 %
NIOBIUM OXIDE	Nb_2O_5	x	x	99.5, 99.95 %
SILICON DIOXIDE	SiO_2	x		99.9- 99.999 %
STRONTIUM TITANATE	$SrTiO_3$	x		99.9 %
TANTALUM OXIDE	Ta_2O_5	x		99.95 %
TITANIUM OXIDE	TiO_2	x	x	99.5- 99.95 %
TIN OXIDE	SnO_2	x		99.9, 99.99 %
TIN OXIDE - ANTIMONY OXIDE	SnO_2 - Sb_2O_3	x		99.99 %
ZINC OXIDE	ZnO	x	x	99.9 %
ZIRCONIUM OXIDE	ZrO_2	x		99.7 %

MATERIALS	COMPOSITION	PLANAR TARGETS	ROTARY TARGETS	PURITIES
SILICIDES				
ALUMINUM SILICIDE	$AlSi_2$	x		99.5 %
CHROMIUM SILICIDE	$CrSi_2$, Cr_3Si	x		99.5 %
MOLYBDENUM SILICIDE	$MoSi_2$	x		99.5 %
TANTALUM SILICIDE	$TaSi_2$, $TaSi_3$	x		99.5 %
SULFIDES				
INDIUM SULFIDE	In_2S_3	x		99.9, 99.99 %
MOLYBDENUM SULFIDE	MoS_2	x		99.9 %
ZINC SULFIDE	ZnS	x		99.9 %
TELLURIDES				
ANTIMONY TELLURIDE	Sb_2Te_3	x		99.5- 99.99 %
BISMUTH TELLURIDE	Bi_2Te_3	x		99.5- 99.99 %
MANGANESE TELLURIDE	MnTe	x		99.5- 99.99 %
ZINC TELLURIDE	ZnTe	x		99.5- 99.99 %