



PVD Materials

Sputtering Targets, Pellets,
Slugs, Starter Charges,
Crucibles

All Configurations of Clips,
Rod, Tube, pieces and Wire



Target
Bonding Services

Recycling of precious metal
scrap

Pure Elements / Noble Metals

- | | | | |
|-----------------|------------------|--------------------|-----------------|
| Aluminum, (Al) | Gadolinium, (Gd) | Nickel, (Ni) | Tantalum, (Ta) |
| Antimony, (Sb) | Gallium, (Ga) | Niobium, (Nb) | Tellurium, (Te) |
| Beryllium, (Be) | Germanium, (Ge) | Osmium, (Os) | Terbium, (Tb) |
| Bismuth, (Bi) | Gold, (Au) | Palladium, (Pd) | Tin, (Sn) |
| Boron, (B) | Hafnium, (Hf) | Platinum, (Pt) | Titanium, (Ti) |
| Cadmium, (Cd) | Indium, (In) | Praseodymium, (Pr) | Tungsten, (W) |
| Calcium, (Ca) | Iridium, (Ir) | Rhenium, (Re) | Vanadium, (V) |
| Carbon, (C) | Iron, (Fe) | Rhodium, (Rh) | Ytterbium, (Yb) |
| Cerium, (Ce) | Lanthanum, (La) | Ruthenium, (Ru) | Yttrium, (Y) |
| Chromium, (Cr) | Lead, (Pb) | Samarium, (Sm) | Zinc, (Zn) |
| Cobalt, (Co) | Magnesium, (Mg) | Selenium, (Se) | Zirconium, (Zr) |
| Copper, (Cu) | Manganese, (Mn) | Silicon, (Si) | |
| Erbium, (Er) | Molybdenum, (Mo) | Silver, (Ag) | |

Precious Metal Alloys

- | | |
|----------------------------------|------------------------------|
| Gold Antimony, (Au/Sb) | Gold Zinc, (Au/Zn) |
| Gold Boron, (Au/B) | Palladium Manganese, (Pd/Mn) |
| Gold Copper, (Au/Cu) | Palladium Nickel, (Pd/Ni) |
| Gold Germanium, (Au/Ge) | Platinum Palladium, (Pt/Pd) |
| Gold Nickel, (Au/Ni) | Palladium Rhenium, (Pd/Re) |
| Gold Nickel Indium, (Au/Ni/In) | Platinum Rhodium, (Pt/Rh) |
| Gold Palladium, (Au/Pd) | Silver Copper, (Ag/Cu) |
| Gold Silicon, (Au/Si) | Silver Gallium, (Ag/Ga) |
| Gold Silver Platinum, (Au/Ag/Pt) | Silver Gold, (Ag/Au) |
| Gold Tantalum, (Au/Ta) | Silver Palladium, (Ag/Pd) |
| Gold Tin, (Au/Sn) | Silver Titanium, (Ag/Ti) |



Cermets and Alloys

Aluminum Copper, (Al/Cu)	Cobalt Niobium Titanium, (Co/Nb/Ti)
Aluminum Silicon, (Al/Si)	Cobalt Platinum, (Co/Pt)
Aluminum Silicon Copper, (Al/Si/Cu)	Cobalt Zirconium Niobium, (Co/Zr/Nb)
Aluminum Titanium, (Al/Ti)	Cobalt Zirconium Rhodium, (Co/Zr/Rh)
Chromium Manganese (CrMn)	Cobalt Zirconium Tantalum, (Co/Zr/Ta)
Palladium, (Cr/Mn/Pd)	Copper Nickel, (Cu/Ni)
Chromium Manganese Platinum, (Cr/Mn/Pt)	Iron Aluminum, (Fe/Al)
Chromium Molybdenum, (Cr/Mo)	Iron Rhodium, (Fe/Rh)
Chromium Ruthenium, (Cr/Ru)	Iron Tantalum, (Fe/Ta)
Chromium Silicon Oxide, (Cr/SiO)	Iron Tantalum Chromium, (Fe/Ta/Cr)
Chromium Vanadium, (Cr/V)	Manganese Iridium, (Mn/Ir)
Cobalt Chromium, (Co/Cr)	Manganese Palladium Platinum, (Mn/Pd/Pt)
Cobalt Chromium Nickel, (Co/Cr/Ni)	Manganese Platinum, (Mn/Pt)
Cobalt Chromium Platinum, (Co/Cr/Pt)	Manganese Rhodium, (Mn/Rh)
Cobalt Chromium Tantalum, (Co/Cr/Ta)	Manganese Ruthenium, (Mn/Ru)
Cobalt Chromium Tantalum Platinum, (Co/Cr/Ta/Pt)	Nickel Chromium, (Ni/Cr)
Cobalt Iron, (Co/Fe)	Nickel Chromium Silicon, (Ni/Cr/Si)
Cobalt Iron Boron, (Co/Fe/B)	Nickel Cobalt Iron, (Ni/Co/Fe)
Cobalt Iron Chromium, (Co/Fe/Cr)	Nickel Iron, (Ni/Fe)
Cobalt Iron Zirconium, (Co/Fe/Zr)	Nickel Iron Chromium, Ni/Fe/Cr
Cobalt Nickel, (Co/Ni)	Nickel Iron Rhodium, (Ni/Fe/Rh)
Cobalt Nickel Chromium, (Co/Ni/Cr)	Nickel Iron Zirconium, (Ni/Fe/Zr)
Cobalt Nickel Iron, (Co/Ni/Fe)	Nickel Manganese, (Ni/Mn)
Cobalt Niobium Hafnium, (Co/Nb/Hf)	Nickel Vanadium, (Ni/V)
Cobalt Niobium Iron, (Co/Nb/Fe)	Tungsten Titanium, (W/Ti)

Oxides

Aluminum Oxide, (Al ₂ O ₃)	Indium Tin Oxide, (ITO)	Strontium Oxide, (SrO)
Antimony Oxide, (Sb ₂ O ₃)	Lanthanum Aluminate, (LaAlO ₃)	Strontium Titanate, (SrTiO ₃)
Barium Oxide, (BaO)	Lanthanum Oxide, (La ₂ O ₃)	Tantalum Pentoxide, (Ta ₂ O ₅)
Barium Titanate, (BaTiO ₃)	Lead Titanate, (PbTiO ₃)	Tin Oxide, (SnO ₂)
Bismuth Oxide, (Bi ₂ O ₃)	Lead Zirconate, (PbZrO ₃)	Titanium Dioxide, (TiO ₂)
Bismuth Titanate, (Bi ₄ Ti ₃ O ₁₂)	Lead Zirconate-Titanate, (PZT)	Tungsten Oxide, (WO ₃)
Ba Sr Titanate, (BST)	Magnesium Oxide, (MgO)	Yttrium Oxide, (Y ₂ O ₃)
Chromium Oxide, (Cr ₂ O ₃)	Molybdenum Oxide, (MoO ₃)	Zinc Oxide, (ZnO)
Copper Oxide, (CuO)	Niobium Pentoxide, (Nb ₂ O ₅)	(ZnO/Al ₂ O ₃)
Hafnium Oxide, (HfO ₂)	Silicon Dioxide, (SiO ₂)	(ZnO/In ₂ O ₃)
Indium Oxide, (In ₂ O ₃)	Silicon Monoxide, (SiO)	Zirconium Oxide, (ZrO ₂)



Borides

Chromium Boride, (CrB₂)
Lanthanum Boride, (LaB₆)
Molybdenum Boride, (Mo₂B₅)

Niobium Boride, (NbB₂)
Tantalum Boride, (TaB₂)
Titanium Boride, (TiB₂)

Tungsten Boride, (W₂B)
Vanadium Boride, (VB₂)
Zirconium Boride, (ZrB₂)

Carbides

Boron Carbide, (B₄C)
Chromium Carbide, (Cr₃C₂)
Molybdenum Carbide, (Mo₂C)
Niobium Carbide, (NbC)

Silicon Carbide, (SiC)
Tantalum Carbide, (TaC)
Titanium Carbide, (TiC)

Tungsten Carbide, (WC)
Vanadium Carbide, (VC)
Zirconium Carbide, (ZrC)

Nitrides

Aluminum Nitride, (AlN)
Boron Nitride, (BN)
Niobium Nitride, (NbN)

Silicon Nitride, (Si₃N₄)
Tantalum Nitride, (TaN)
Titanium Nitride, (TiN)

Vanadium Nitride, (VN)
Zirconium Nitride, (ZrN)

Silicides

Chromium Silicide, (CrSi₂)
Molybdenum Silicide, (MoSi₂)
Niobium Silicide, (NbSi₂)

Platinum Silicide, (PtSi)
Tantalum Silicide, (TaSi₂)
Titanium Silicide, (TiSi₂)

Tungsten Silicide, (WSi₂)
Vanadium Silicide, (VSi₂)
Zirconium Silicide, (ZrSi₂)

Fluorides

Aluminum Fluoride, (AlF₃)
Barium Fluoride, (BaF₂)
Calcium Fluoride, (CaF₂)

Cerium Fluoride, (CeF₂)
Lithium Fluoride, (LiF)
Magnesium Fluoride, (MgF₂)

Potassium Fluoride, (KF)
Sodium Fluoride, (NaF)

Miscellaneous

Bismuth Telluride, (Bi₂Te₃)
Lead Selenide, (PbSe)
Lead Sulfide, (PbS)

Lead Telluride, (PbTe)
Molybdenum Selenide (MoSe)
Zinc Selenide, (ZnSe)

Zinc Sulfide, (ZnS)
Zinc Telluride, (ZnTe)