

## PVD Material Listing

### Pure Metals

Aluminum, Al  
Antimony, Sb  
Beryllium, Be  
Bismuth, Bi  
Boron, B  
Cadmium, Cd  
Calcium, Ca  
Carbon, C  
Cerium, Ce  
Chromium, Cr  
Cobalt, Co  
Copper, Cu  
Erbium, Er  
Gadolinium, Gd  
Gallium, Ga  
Germanium, Ge  
Gold, Au  
Hafnium, Hf  
Indium, In  
Iridium, Ir  
Iron, Fe  
Lanthanum, La  
Lead, Pb  
Magnesium, Mg  
Manganese, Mn  
Molybdenum, Mo  
Neodymium, Nd  
Nickel, Ni  
Niobium, Nb  
Osmium, Os  
Palladium, Pd  
Platinum, Pt  
Praseodymium, Pr  
Rhenium, Re  
Rhodium, Rh  
Ruthenium, Ru  
Samarium, Sm  
Selenium, Se  
Silicon, Si  
Silver, Ag  
Tantalum, Ta

Tellurium, Te  
Terbium, Tb  
Tin, Sn  
Titanium, Ti  
Tungsten, W  
Vanadium, V  
Ytterbium, Yb  
Yttrium, Y  
Zinc, Zn  
Zirconium, Zr

### **Precious Metals**

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

### **Alloys & Cermets**

Aluminum Copper, Al/Cu  
Aluminum Silicon, Al/Si  
Aluminum Silicon Copper, Al/Si/Cu  
Aluminum Titanium, Al/Ti  
Chromium Manganese Palladium, Cr/Mn/Pd  
Chromium Manganese Platinum, Cr/Mn/Pt  
Chromium Molybdenum, Cr/Mo  
Chromium Ruthenium, Cr/Ru  
Chromium Silicon Oxide, Cr/SiO  
Chromium Vanadium, Cr/V  
Cobalt Chromium, Co/Cr  
Cobalt Chromium Nickel, Co/Cr/Ni  
Cobalt Chromium Platinum, Co/Cr/Pt  
Cobalt Chromium Tantalum, Co/Cr/Ta  
Cobalt Chromium Tantalum Platinum, Co/Cr/Ta/Pt  
Cobalt Iron, Co/Fe  
Cobalt Iron Boron, Co/Fe/B  
Cobalt Iron Chromium, Co/Fe/Cr  
Cobalt Iron Zirconium, Co/Fe/Zr  
Cobalt Nickel, Co/Ni

Cobalt Nickel Chromium, Co/Ni/Cr  
Cobalt Nickel Iron, Co/Ni/Fe  
Cobalt Niobium Hafnium, Co/Nb/Hf  
Cobalt Niobium Iron, Co/Nb/Fe  
Cobalt Niobium Titanium, Co/Nb/Ti  
Cobalt Platinum, Co/Pt  
Cobalt Zirconium Niobium, Co/Zr/Nb (CZN)  
Cobalt Zirconium Rhodium, Co/Zr/Rh  
Cobalt Zirconium Tantalum, Co/Zr/Ta (CZT)  
Copper Nickel, Cu/Ni  
Copper Gallium, Cu/Ga  
Copper Indium, Cu/In  
Iron Aluminum, Fe/Al  
Iron Cobalt, Fe/Co  
Iron Rhodium, Fe/Rh  
Iron Tantalum, Fe/Ta  
Iron Tantalum Chromium, Fe/Ta/Cr  
Manganese Iridium, Mn/Ir  
Manganese Palladium Platinum, Mn/Pd/Pt  
Manganese Platinum, Mn/Pt  
Manganese Rhodium, Mn/Rh  
Manganese Ruthenium, Mn/Ru  
Nickel Chromium, Ni/Cr  
Nickel Chromium Silicon, Ni/Cr/Si  
Nickel Cobalt Iron, Ni/Co/Fe  
Nickel Iron, Ni/Fe  
Nickel Iron Chromium, Ni/Fe/Cr  
Nickel Iron Rhodium, Ni/Fe/Rh  
Nickel Iron Zirconium, Ni/Fe/Zr  
Nickel Manganese, Ni/Mn  
Nickel Vanadium, Ni/V  
Tungsten Titanium, W/Ti

### **Borides**

Chromium Boride, CrB(2)  
Lanthanum Boride, LaB(6)  
Molybdenum Boride, Mo(2)B(5)  
Niobium Boride, NbB(2)  
Tantalum Boride, TaB(2)  
Titanium Boride, TiB(2)  
Tungsten Boride, W(2)B  
Vanadium Boride, VB(2)  
Zirconium Boride, ZrB(2)

### **Carbides**

Boron Carbide, B(4)C  
Chromium Carbide, Cr(3)C(2)  
Molybdenum Carbide, Mo(2)C  
Niobium Carbide, NbC  
Silicon Carbide, SiC  
Tantalum Carbide, TaC  
Titanium Carbide, TiC  
Tungsten Carbide, WC  
Vanadium Carbide, VC  
Zirconium Carbide, ZrC

## Fluorides

Aluminum Fluoride, AlF<sub>3</sub>  
Barium Fluoride, BaF<sub>2</sub>  
Calcium Fluoride, CaF<sub>2</sub>  
Cerium Fluoride, CeF<sub>3</sub>  
Cryolite, Na<sub>3</sub>AlF<sub>6</sub>  
Lithium Fluoride, LiF  
Magnesium Fluoride, MgF<sub>2</sub>  
Potassium Fluoride, KF  
Rare Earth Fluorides  
Sodium Fluoride, NaF

## Nitrides

Aluminum Nitride, AlN  
Boron Nitride, BN  
Niobium Nitride, NbN  
Silicon Nitride, Si<sub>3</sub>N<sub>4</sub>  
Tantalum Nitride, TaN  
Titanium Nitride, TiN  
Vanadium Nitride, VN  
Zirconium Nitride, ZrN  
Si<sub>3</sub>N<sub>4</sub>/TiN

## Silicides

Chromium Silicide, CrSi<sub>2</sub>  
Molybdenum Silicide, MoSi<sub>2</sub>  
Niobium Silicide, NbSi<sub>2</sub>  
Platinum Silicide, PtSi  
Tantalum Silicide, TaSi<sub>2</sub>  
Titanium Silicide, TiSi<sub>2</sub>  
Tungsten Silicide, WSi<sub>2</sub>  
Vanadium Silicide, VSi<sub>2</sub>  
Zirconium Silicide, ZrSi<sub>2</sub>

## Oxides

Aluminum Oxide, Al<sub>2</sub>O<sub>3</sub>  
Antimony Oxide, Sb<sub>2</sub>O<sub>3</sub>  
Barium Oxide, BaO  
Barium Titanate, BaTiO<sub>3</sub>  
Bismuth Oxide, Bi<sub>2</sub>O<sub>3</sub>  
Bismuth Titanate, Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub>  
Ba Sr Titanate, BST  
Chromium Oxide, Cr<sub>2</sub>O<sub>3</sub>  
Copper Oxide, CuO  
Hafnium Oxide, HfO<sub>2</sub>  
Indium Oxide, In<sub>2</sub>O<sub>3</sub>  
Indium Tin Oxide, ITO  
Lanthanum Aluminate, LaAlO<sub>3</sub>  
Lanthanum Oxide, La<sub>2</sub>O<sub>3</sub>  
Lead Titanate, PbTiO<sub>3</sub>  
Lead Zirconate, PbZrO<sub>3</sub>  
Lead Zirconate-Titanate, PZT  
Lithium Niobate, LiNbO<sub>3</sub>  
Magnesium Oxide, MgO  
Molybdenum Oxide, MoO<sub>3</sub>  
Niobium Pentoxide, Nb<sub>2</sub>O<sub>5</sub>  
Rare Earth Oxides, RE<sub>2</sub>O<sub>3</sub>  
Silicon Dioxide, SiO<sub>2</sub>  
Silicon Monoxide, SiO  
Strontium Oxide, SrO

Strontium Titanate, SrTiO(3)  
Tantalum Pentoxide, Ta(2)O(5)  
Tin Oxide, SnO(2)  
Titanium Dioxide, TiO(2)  
Tungsten Oxide, WO(3)  
Yttrium Oxide, Y(2)O(3)  
Zinc Oxide, ZnO  
ZnO/Al(2)O(3)  
ZnO/In(2)O(3)  
Zirconium Oxide, ZrO(2)

#### Others

Bismuth Telluride, Bi(2)Te(3)  
Cadmium Selenide, CdSe  
Cadmium Sulfide, CdS  
Lead Selenide, PbSe  
Lead Sulfide, PbS  
Lead Telluride, PbTe  
Molybdenum Selenide, MoSe(2)  
Molybdenum Sulfide, MoS(2)  
Zinc Selenide, ZnSe  
Zinc Sulfide, ZnS  
Zinc Telluride, ZnTe  
ZnS/SiO(2)

Last updated 12/21/2007, Fergutec b.v.