



Single Crystal, Substrate / Target Materials

Silicon Wafers, P & N type.
2" to 12" diameter wafers.

Mono-crystalline Synthetic Sapphire
(Al₂O₃).
2" & 4" diameter wafers.

High-temperature Superconductor
SrTiO₃, LaAlO₃, YSZ, LSAT, NdGaO₃, MgO,
SrLaAlO₄, KtaO₃, NaGaAlO₄.

Giant Magnetoresistance &
Ferroelectric DyScO₃, GdScO₃, BaTiO₃,
Nd: SrTiO₃, GGG, MgO, SrTiO₃

Gallium Nitride ZnO, MgAl₂O₄, Al₂O₃,
LiGaO₃, LiAlO₂, SiC.

Group II-VI CdZnTe, CdTe, CdS, ZnSe, ZnO.

Optical & Sonic SiO₂, TiO₂, CaCO₃,
LiTaO₃, LiNbO₃, KTN, YVO₄, LiTaO₃.

Semiconducting GaSb, GaAs, InP, InAs,
GaP, InSb, Si, Ge.

Bicrystal SrTiO₃, LaAlO₃, LSAT.

Scintillation Crystal Ce:YAG, PbWO₄,
CdWO₄, BGO, Bi₂SiO₂O.

Infrared Optics Crystal LiF, Ge, Al₂O₃,
CaF₂, BaF₂, MgF₂.

Ceramic Substrate AlN Other Crystal
PbF₂, LaF₃, Lu₂SiO₅ (doping Ce), Y₂SiO₅
(doping Ce), NaCl, KCl, KBr, TGG.

Compounds of:

Oxides
Fluorides
Carbides
Borides
Silicides
Nitrides

Available Forms:

Evaporation Materials

Machined Pellets
Sputtering Targets
Starter Sources
Granules
Tablets
Flake
Powders
Rods
Wires
Crucibles
Foil
Sheets



High Purity Coating Materials

Metals, Alloys & Compounds





High Purity Coating Materials

Optical Thin Film Materials

Metals, Alloys & Compounds

Testbourne is a major source of high purity metals, alloys and compounds for many different industries and research establishments world-wide. We are committed to provide the best possible service, with over 45 years of experience maintaining a high standard of quality.

Testbourne's extensive range of coating materials are fabricated in forms including sputtering targets, granules, pellets, tablets, powders, wire, rods, cones, crucible liners, sheets and evaporation boats. These are all available from small research batches to large scale bulk requirements for today's industry. We also accommodate any custom requirements you may have.

Industries and Applications

- Optics - Optoelectronics
- Fibre Optics
- Ophthalmology
- Holographic Coatings
- Laser - Lenses - Mirrors
- LED/OLED
- Fuel Cells
- Batteries
- Architectural and Automotive Glass Coating
- Photovoltaic - Solar Thermal
- Decorative and Hardwearing Coatings
- Medical
- Military - Aerospace
- Semiconductor
- R&D Research Establishments & Universities

Metals, Alloys & Compounds

Purities: from 99.5%, 99.95%, 99.99% & 99.999%.
Granules, pellets, powder, wires, sheets, foils, rods, cones, sputtering target and custom-made parts.

Refractory Metals & Alloys

Purities: from commercial grades to high purity.
Granules, pellets, powder, wires, sheets, foils, rods, cones, sputtering target & custom-made parts.

Ultra-High Purity Metals

Te: 99.999% & 99.99999%
Se: 99.999% & 99.9999%
Cd: 99.999%, 99.9999% & 99.99999%
In: 99.999% & 99.9999%
Zn: 99.9999% & 99.99999%
S: 99.999% & 99.9999%
Sb: 99.999%

Powders

Purities: from commercial grades to high purity.

From large mesh sizes to sub-micron (nano powders), large range of metals, alloys and compounds to your required specifications.

Precious Metals

Purities: 99.9%, 99.95%, 99.99% & 99.999%.
Granules, pellets, powder, wires, custom-made parts.

Gold | Palladium | Platinum | Silver Iridium | Ruthenium | Rhodium

Precious metal-based alloys.
Metal reclaim.

Semiconductor Compounds

Purities: 99.99% min & 99.999% min.
Powders and Granules.

Sulphides: Ag₂S, Al₂S₃, As₂S₃, Bi₂S₃, CdS, CuS, Ga₂S₃, GeS, In₂S₃, PbS, Sb₂S₃, SnS₂.

Tellurides: Ag₂Te, Al₂Te₃, As₂Te₃, Bi₂Te₃, CdTe, CuTe, GaTe, GeTe, InTe, In₂Te₃, PbTe, Sb₂Te₃, SnTe, ZnTe.

Selenides: Ag₂Se, Al₂Se₃, As₂Se₃, As₂Se, Bi₂Se₃, CdSe, CuSe, Cu₂Se, GaSe, Ga₂Se₃, GeSe, InSe, In₂Se₃, Sb₂Se₃, SnSe, ZnSe, Zn₃Se₂.

Arsenides: Cd₂As₂, PbAs, SnAs, ZnAs₂ & Zn₂As₂.

Antimonides: AlSb, CdSb, GaSb, InSb, In₂Sb₃, PbSb, SnSb & ZnSb.

Multi-compound mixtures.

Rare Earth Materials

Purities: 99.5%, 99.9%, 99.95% & 99.99%.
Granules, lumps, powder, ingots, custom-made parts.

Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sm, Sc, Tb, Tm, & Yb

Alloys.
Oxides.
Fluorides.