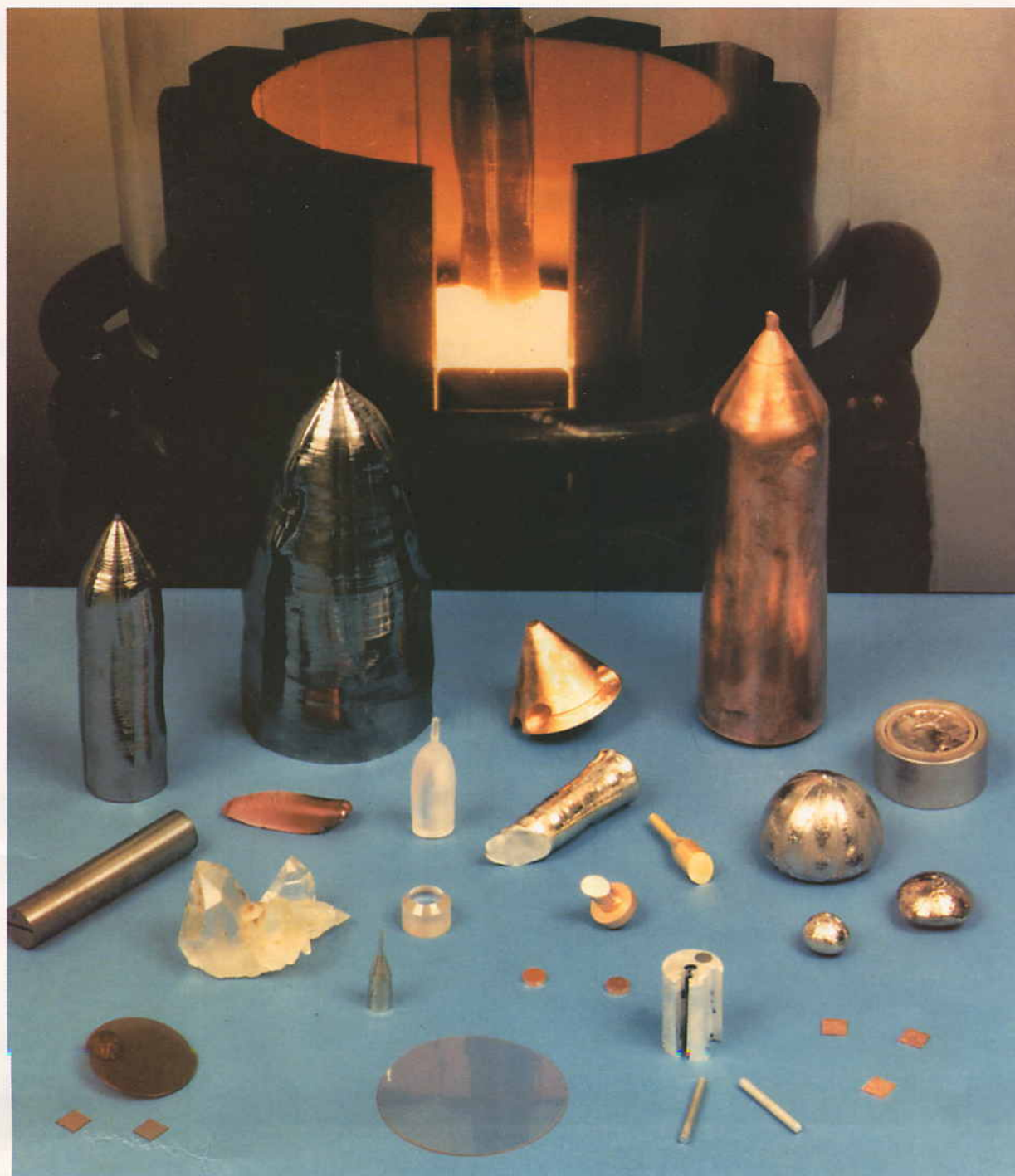




**MATERIALS TECHNOLOGY & CRYSTALS FOR
RESEARCH, DEVELOPMENT AND PRODUCTION**



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Metal single crystals

- Ag, Al, Au, Be, Bi, Cd, Co, Cr, Cu, Dy, Fe, Ge, Gd, Hf, Ho, In, Ir, Mg, Mo, Nb, Ni, Pb, Pd, Pt, Re, Rh, Ru, Sb, Si, Sn, Ta, Te, Ti, V, W, Y, Zn, Zr and its alloys (e.g. CuAu, CuPt, FeAl, NiAl, NiFe, PtCr, PtPd, PtRh)
- crystals for monochromators (Be, Bi, Cu, Ge, graphite, Ni, etc.)
- growth methods: Czochralski, Bridgman, floating zone, gas phase and others
- custom shape forming by sawing, cutting, drilling and spark erosion machining
- polishing of surfaces: orientation accuracy of 2° to $< 0.1^\circ$ and roughness of $< 0.03 \mu\text{m}$

Substrate single crystals

- for superconductivity: Al_2O_3 , LaAlO_3 , MgO , NdGaO_3 , SrLaAlO_4 , SrLaGaO_4 , SrTiO_3 , Nb:SrTiO_3 , TiO_2 , YAlO_3 , $\text{ZrO}_2(\text{Y})$, etc.
- bicrystals: Al_2O_3 , MgO , SrTiO_3 , Nb:SrTiO_3 , $\text{ZrO}_2(\text{Y})$, etc.
- for III-V nitrides: Al_2O_3 , LiAlO_2 , LiGaO_2 , MgAl_2O_4 , MgO , NiAl , SiC , ZnO , etc.
- epi-ready polishing of surfaces with an orientation accuracy of $< 0.5^\circ$ (standard) and better

Oxide single crystals

- BaTiO_3 , CoO , Cr_2O_3 , FeO , $\text{Gd}_3\text{Ga}_5\text{O}_{12}$, MnO , NiO , SiO_2 , etc.
- polishing of surfaces with an orientation accuracy from 2° to $< 0.1^\circ$

Semiconductor single crystals

- electronic grade Ge- and Si-wafers (doped and undoped)
- II-VI semiconductors (CdTe , CdS , CdSe , ZnS , ZnSe , ZnTe , etc.)
- III-V semiconductors (GaAs , GaP , GaSb , InAs , InP , InSb , etc.)
- IV-VI semiconductors (PbS , PbSe , PbTe , SnTe , etc.)

Optical crystals

- AgBr , AgCl , BaF_2 , CaF_2 , CdTe , CsI , fused silica, Ge , KBr , KCl , KRS-5 , LiF , MgF_2 , NaCl , sapphire (including tubes), Si , ZnSe
- mirrors, prisms, lenses, windows and wedges with diameter up to 8.5"

Sputter targets and highest purity materials

- metals, non-metals and chemical compounds
- ingot, tubes, foils, wires, granules, powder, targets, etc. with purity from 99 to 99.99999%

Other materials and services

- crystal materials such as ATR-crystals, diamond, GeS , HOPG , LaB_6 , LiNbO_3 , SiC , etc.
- non-crystal materials such as ceramics, PM-materials, etc.
- research on crystals and materials

New online catalogue for high purity materials (> 4000 products): <http://www.mateck.com>



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