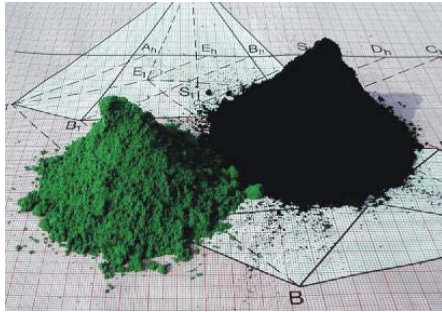


HTS bulk materials

Custom designed HTS materials

In close collaboration with a leading German manufacturer of HTS bulk materials THEVA can address all HTS related requests from the fine grinded powder material to refined products like targets for pulsed laser or sputter deposition and melt textured blocks for superconducting magnet bearings.

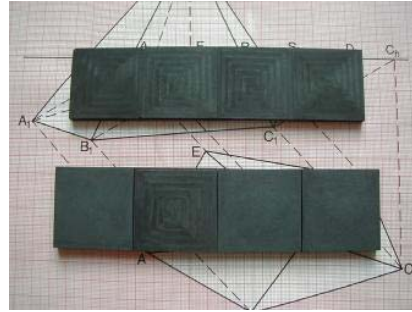


Metal oxide powder

HTS material fabrication starts from high purity oxide powders. THEVA can provide superconducting powder or granular material with custom designed composition and doping.

Standard compositions are REBCO – 123 or – 211 containing various rare earth elements like RE = Y, Sm, Nd, Tb, Dy etc. and mixtures thereof.

Ultra - fine dispersion of doping elements like Zn, Ag and others is available on request.



Targets

High density targets for PLD or sputtering with a variety of compositions are available in custom designed size and geometry.

Technical specs:

85-90% relative density

up to 200 x 100 mm²

Various REBCO compositions (RE = Y, Sm, Nd, Dy)

Doping available on request.



Melt textured material

Melt textured bodies of REBCO are custom designed as single domain or multi-seeded poly - domain parts. They are available as bricks, plates, rings or ring segments up to diameters of 250 mm.

Strong pinning forces guarantee high remnant fields for magnets and excellent performance for magnetic bearing applications.