

Itemization of Materials and Supplies budget for COMPRES Multi-Anvil Cell Assembly Project

Sintered diamond anvils from Sandvik and/or Sumitomo for ultrahigh pressure development (with GSECARS). Sandvik anvils have not been previously tested.

\$10 K

New grades of tungsten carbide from Sandvik, Fujiloy, others for extending pressure capabilities of conventional multi-anvil

\$10 K

Development of 25/15 assembly, smaller assemblies for ultrahigh pressure development. New molds for injection-molded octahedra and DIA cubes.

\$14 K

Development of pressure standards: reagents, crucibles, other materials and supplies for sol-gel, high-temperature, and cold seal or gas vessel syntheses needed to create large quantities of pressure standards for distribution to the community. A commercial synthesis of SiO₂-GeO₂ glass for pressure calibrations. Some high pressure syntheses for adding high-pressure phases for reversals.

\$6 K

TOTAL 40K