

Porous Refractory Metals Tungsten and Molybdenum

Spectra-Mat's porous refractory components offer the following advantages over other metals and processes:

- Economic alternative to wrought tungsten and molybdenum products. Our proprietary process allows us to manufacture direct replacement parts for wrought materials at a fraction of the cost
- Thermally and electrically conductive. Thermal conductivity can be 50% higher than that of steel, iron, or nickel alloys.
- High tensile strength.
- Excellent high temperature strength and hardness.
- Resistant to corrosion by several mineral acids, liquid metals, and gases.
- Available in a wide density range: 2.5 – 16.4 g/cc, depending on material and porosity requirements.

Spectra-Mat's engineers will work with you to tailor a density and pore size distribution for applications with specific porosity requirements.

Spectra-Mat's porous refractory metals have wide applicability, including the following applications:

- ◆ Semiconductor processing equipment
- ◆ Liquid sodium battery cell
- ◆ Cryogenic cooling systems
- ◆ KEP cores
- ◆ Filter media



Arc chamber for ion implantation

For additional information, applications or pricing, please contact:

Spectra-Mat, Inc.

100 Westgate Drive
Watsonville, CA 95076, USA

Tel. +1 831 722 4116 - Fax +1 831 722 4172

www.spectramat.com