

ULTRA HIGH PURITY POROUS CERAMIC ELEMENTS



DESCRIPTION

Mott's Ultra High Purity Porous Ceramics can be customized to your application requirements. Ceramic technology offers a wide variety of chemical compatibilities as well as durability in high temperature and pressure applications. Best in class cleanliness is achieved by manufacturing in a Class 100 clean room environment with >99.5% pure alumina.

With the pore sizes from 0.2 to 5 media grade (MG) and porous-to-solid dual density design capabilities, Mott's porous ceramics have limitless application possibilities.

APPLICATIONS

- » Electrostatic Chuck Conduits and Feed Systems
- » Ultra High Purity Gas Diffusion
- » High Temperature Liquid Filtration
- » Semiconductor Wafer Fabrication Components



Dual Density

OPERATING CONDITIONS

- » Max Operating Pressure: 5,000 psi
- » Max Operating Temperature: 2,750°F (1,500°C)
- » Max Differential Pressure: 1,250 psi

SPECIFICATIONS

Flux	Up to 71.6 SCCM He/cm ² at 8 Torr
Part-to-Part Variability	<10% at 3-sigma
Material Purity	≥99.5% Al ₂ O ₃
Cleanliness	<50K 0.2µm particles/cm ²
Pore Size	0.2 - 5 MG
Compressive Strength	5,000 psi
Density	35%+

GEOMETRIES

Geometry	OD (in)	ID (in)	Length (in)	Width (in)	Thickness (in)
Small Tubes/Bushings	0.10 - 2.5	>0.062	0.10 - 4.0	N/A	N/A
Plates	N/A	N/A	≤ 6.0	≤ 6.0	0.15 - 2.0
Discs	0.10 - 2.5	N/A	N/A	N/A	0.10 - 4.0

*Please contact a Mott Sales Rep if additional geometries are required