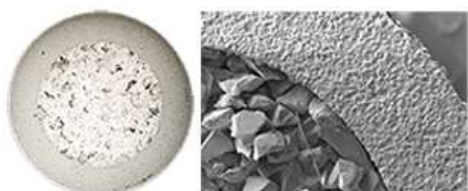


HIGH PURITY POROUS CERAMIC FLOW COMPONENTS FOR ESCs

mott
MISSION CRITICAL PRECISION

IMPROVE YOUR PROCESS TOOL PRODUCTIVITY WITH EXTENDED ELECTROSTATIC
CHUCK LIFETIME AND BETTER FULL WAFER TEMPERATURE UNIFORMITY



Dual density (porous-to-solid) assembly and microstructure

INCREASED CHUCK DURABILITY

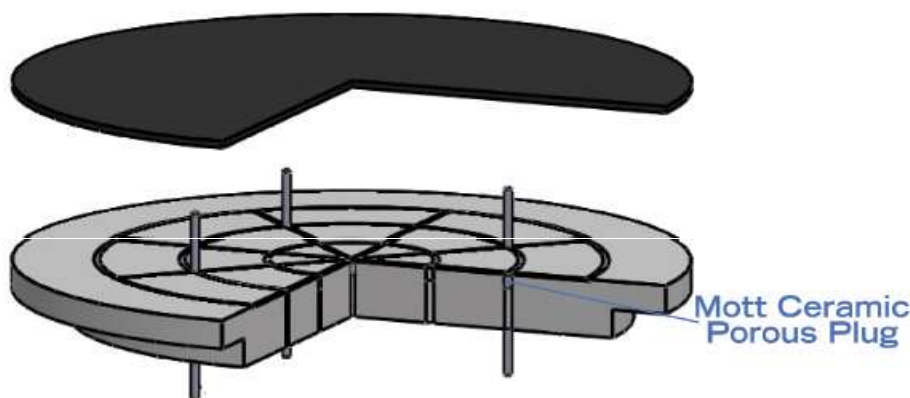
Prevent costly replacement caused by breakdown voltage arcing within the conduit holes by integrating Mott's high porosity ceramic plugs

IMPROVE WAFER YIELD

Reduced particles with >99.5% Alumina purity ceramic components and uniform backside gas flow across ESC

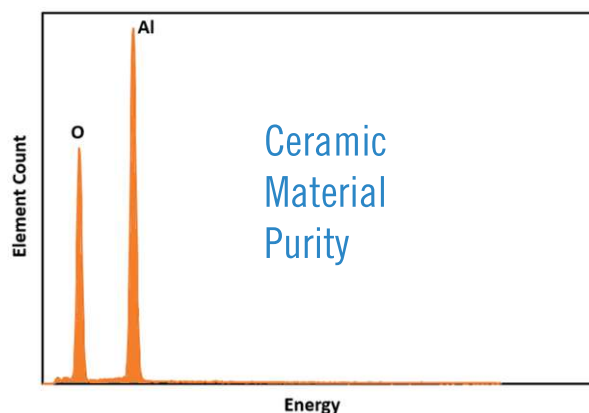
IMPROVE TEMPERATURE CONTROL

With <10% part-to-part flow variability, more uniform He flow across entire backside of wafer



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% Alumina
Pore Size	1 μm - 80 μm (tailored for use case)



Elemental Analysis (EDAX)