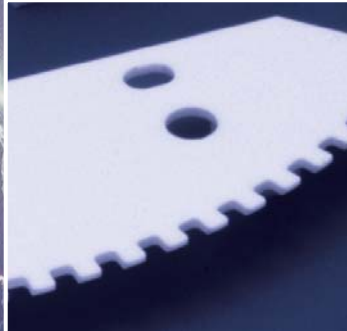
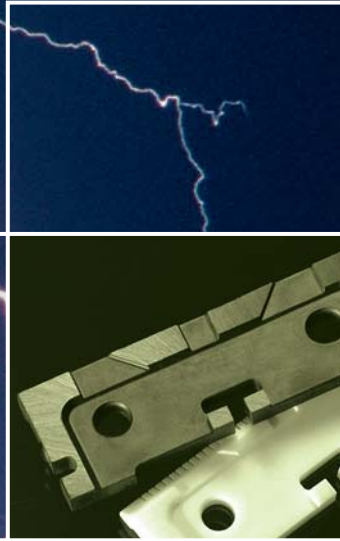


COORSTEK
Amazing Solutions.®



STATSAFE™

**ESD-SAFE
CERAMICS**

PROTECT YOUR DEVICES FROM ELECTROSTATIC DISCHARGE WITH STATSAFE™ CERAMICS

Leaders in Technical Ceramics

The largest technical ceramics manufacturer in North America, CoorsTek provides innovative ESD-Safe ceramic components for technology leaders across the globe.

ESD-Safe From the Ground Up!

Developed specifically to protect sensitive microelectronic components from Electrostatic Discharge (ESD), CoorsTek StatSafe ESD-Safe Ceramics help prevent the accumulation of static electricity. These static-dissipative products are ideal for use in semiconductor and electronic industries. Typical applications include:

- End effectors
- ESD sensitive component handling
- Data storage drive components
- Data storage drive manufacturing tools

Quality

Through our Total Quality System, we provide on-line statistical process control and ISO 9001 certification for the highest product quality and lot traceability.

Technical Ceramics

Our specialized StatSafe™ ESD-safe alumina, zirconia, and silicon carbide combine excellent static-dissipation characteristics with the superior mechanical properties of advanced ceramics:

- Tailorable volume resistivity
- Superior surface finish
- High stiffness
- Excellent wear and corrosion resistance
- Low thermal expansion
- Dimensional stability

Design Services and Manufacturing Capabilities

CoorsTek engineers will help you select the best material and design configuration for your application. We offer a variety of forming processes including injection molding, dry pressing, isostatic forming, and extrusion to ensure high-quality, low-cost manufacturing.

Immediate Service

Call our ESD-Safe Ceramics Experts today at **303-271-7032**.

ESD-Safe Material Properties		Static Dissipative Ceramics					
		Alumina		Zirconia		Silicon Carbide	
Property	Units	StatSafe™ ADC Al ₂ O ₃	StatSafe™ ZDC ZrO ₂	StatSafe™ ZDC-W ZrO ₂	StatSafe™ SC-DS Direct Sintered SiC	PureSiC™ HR CVD SiC	PureSiC™ LR CVD SiC
Color	–	Black	Black	White	Black	Black	Black
Volume Resistivity	ohm • cm	10⁴ - 10⁷	10⁴ - 10⁷	10⁴ - 10⁷	10⁵ - 10⁹	10⁴ - 10⁷	0.01 - 0.1
Density	gm/cc	3.85	5.75	5.91	3.15	3.21	3.21
Modulus of Elasticity	GPa	370	200	200	410	462	434
Flexural Strength	MPa	300	600	650	480	468	517
Thermal Conductivity	W/m °K	25	5	3.5	150	115	115
CTE	ppm/ °C	8	9	10	4.4	4.6	4.6

Note: The chart is intended to illustrate typical properties. Engineering data is representative. Property values vary somewhat with method of manufacture, size, and shape of part. This data is not to be construed as absolute and does not constitute a warranty for which we assume legal responsibility.

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