**Advanced Ceramic Components for Flat-Panel Display Manufacturing**

### Engineered Ceramics Experts
CoorsTek provides high-performance, critical-duty components for Flat Panel Display (FPD) manufacturing from a range of specialized, high-purity engineered ceramics. Our experts help you choose the best design and material for optimal performance and component life.

### Why Specify Ceramic Components?
CoorsTek ceramics provide superior performance in severe-service application environments. Benefits include:
- Excellent corrosion resistance in plasma and chemical etching environments — Our PlasmaPure™ high-purity alumina is engineered to outperform standard ceramic materials in corrosive etch applications
- Superior dielectric strength to help prevent electrical arcing during machine operation
- StatSafe™ ESD safe ceramic materials prevent static charge buildup during glass transport
- Longer component life — CoorsTek ceramics outperform engineering plastics in most plasma etch applications
- Thermal stability — Ceramic components are extremely stable in a wide range of operating and idle temperatures

### Critical Components for a Variety of FPD Applications
CoorsTek provides a great variety of thermally stable, corrosion resistant, and high-purity ceramic components for typical FPD applications:

#### Etch
- Focus, shield, and insulator plates — Single piece and segmented construction
- Ceramic covers
- Buffer plates

#### CVD
- Insulator shield rings
- Guide bushings and support shafts
- Ceramic liners

#### Ultra-flat vacuum chucks
- Up to 2.5 meters square
- Low surface contact designs
- Low reflectivity or high transmissivity

#### Multi-purpose components
- Various pins, screws, plates, frames, & windows
- Ceramic clamps and bushings
- End effectors/substrate handling components

### Materials and Manufacturing Experts
With over 50 manufacturing sites across four continents, CoorsTek is the international partner of choice for high-performance semiconductor components. For more information, contact a CoorsTek materials expert today at +82 31 8016 9350.

### Table of Properties

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>UNITS</th>
<th>TEST</th>
<th>STATSAFE™ ADC</th>
<th>STATSAFE™ ZDC</th>
<th>STATSAFE™ ZDC W</th>
<th>AD-96</th>
<th>ADO-96</th>
<th>FG-995</th>
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<th>PLASMAPURE™ AD-998</th>
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