

Advanced Materials and Components for Front-End Semiconductor Manufacturing

CoorsTek supports the semiconductor manufacturing industry by supplying ceramic materials and chamber-critical components used in chip-processing equipment. From raw material design and production to finished and assembled components, our vertically integrated manufacturing ensures quality for every step of the process.

Etch



Components:

- Shower heads
- Windows
- Focus Rings
- Domes
- Shields
- Nozzles

Materials:

- PlasmaPure™ Alumina
- PureSiC™ CVD SiC
- AD-995 Alumina

CVD, PVD, ECP



Components:

- Gas distribution plates
- Chamber liners
- Domes
- Plating insulators
- Cover rings

Materials:

- PlasmaPure Alumina
- PURE SiC™ CVD SiC
- Engineered arc-spray coatings
- AD-995 Alumina

High-temperature – RTP, EPI



Components:

- Edge rings
- Shields
- Low-Mass lift pins
- Thermal couple sheaths
- Susceptors

Materials:

- PURE SiC™ CVD SiC
- SC-DS Sintered SiC
- PlasmaPure™ Alumina

Implant



Components:

- RF shields
- Insulators

Material:

- PlasmaPure Alumina
- PURE SiC™ CVD SiC
- ESD Ceramics
- AD-995 Alumina

Lithography, Wafer Inspection



Components:

- Air-bearing guideways
- Air bearings
- Interferometer reference mirrors
- Scale mounts

Materials:

- Fine-Grained Alumina
- SC-DS Sintered SiC
- Dura-Z™ Zirconia

General Applications



Components:

- ESD end effectors
- Lift pins
- Wafer chucks

Materials:

- ESD Ceramics
- PlasmaPure™ Alumina
- SC-DS Sintered SiC
- Brazed Ceramic Assemblies
- Dura-Z™ Zirconia
- Multi-layer Channeled Ceramic Substrates
- AD-995 Alumina

For expert assistance with your next project, please contact us at **800-455-4050** or send an e-mail to **semi@coorstek.com**.