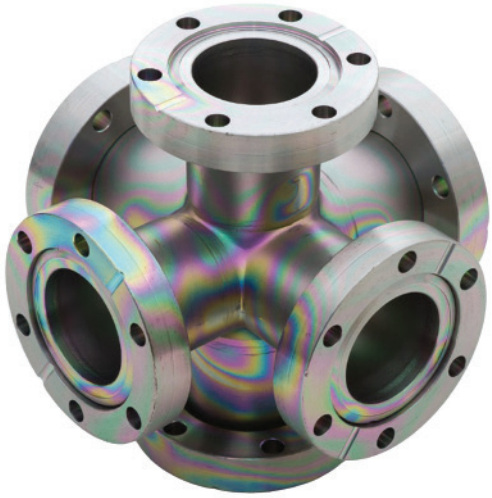
Dursox®

Providing corrosion resistance for high purity process environments.

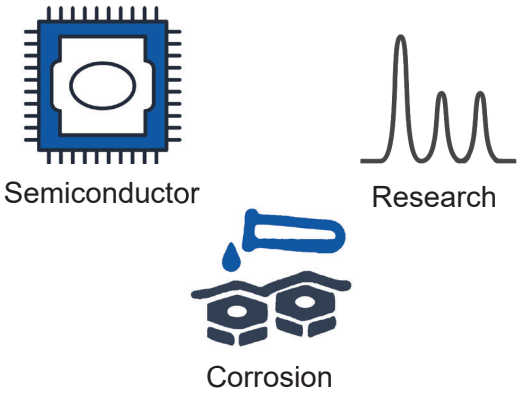
Overview

The Dursox® coating process results in a chemically protective hydrophilic barrier of amorphous silicon and oxygen that prevents substrate ions from leaching into process streams (patent info at www.silcotek.com/IP). Applied via chemical vapor deposition (CVD), the Dursox® process is required when both a robust and chemically compatible surface are critical.



Key Applications and Benefits

- Achieve the performance of exotic materials at a fraction of the price
- Fight corrosion and chemical interaction
- Lower instrument detection limits
- Improve surface wetting



Dursox® Specifications

Coating Structure:	Silica-like coating (a-SiO_x)	
Deposition Process:	Thermal chemical vapor deposition (not plasma-enhanced)	
Maximum Temperature:	1250° C*	
Substrate:	Compatibility: Size: Geometry:	Stainless steel, exotics alloys, ceramics Up to 78” (198 cm) Any shape, including complex geometrics
Typical Thickness:	400 - 1600 nm	
Hydrophobicity (contact angle):	≤60°	
Allowable pH Exposure:	0 - 14	

*Contact technical service