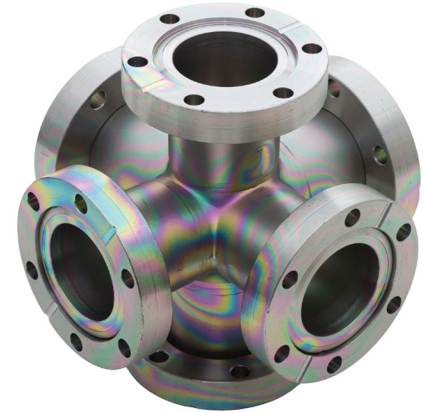


A versatile coating solution ideal for corrosion and durability, chemical inertness, and anti-stick properties.

Overview

Dursan® (patent info at www.silcotek.com/IP) is a chemically protective barrier of amorphous silicon, oxygen and carbon that is further functionalized to resist adsorption of corrosive, reactive, and otherwise unwanted molecules. Applied via chemical vapor deposition (CVD), Dursan® is a required coating when both a robust and chemically inert surface are critical.



Key Applications and Benefits

- Achieve corrosive performance similar to exotic materials at a fraction of the price
- Increase system durability
- Improve instrument accuracy and response time
- Easy release and cleaning



Corrosion



Chemical Process



Oil & Gas/Refining



Hydrophobicity



Lab Analysis

Dursan® Specifications

Coating Structure:	Functionalized silica-like coating ($a\text{-SiO}_x\text{:CH}_y$)
Deposition Process:	Thermal chemical vapor deposition (not plasma-enhanced)
Maximum Temperature:*	500° C (inert atmosphere) 450° C (oxidative)
Substrate:	Compatibility: Stainless steel, exotic alloys, ceramics Size: Up to 78" (198 cm) Geometry: Any shape, including complex geometrics
Typical Thickness:	400 - 1600 nm
Hydrophobicity (contact angle):	$\geq 81^\circ$
Allowable pH Exposure:	0 - 14