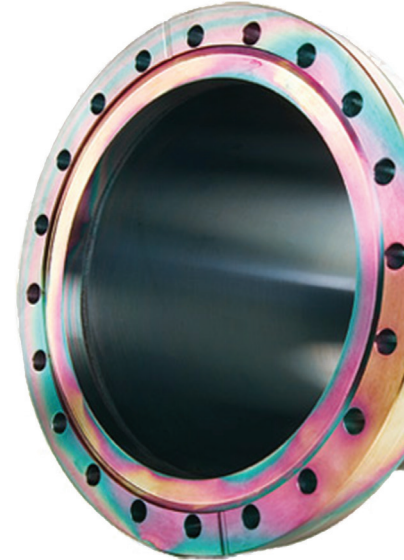


# SilcoGuard®

Providing high purity coatings that minimize outgassing and enhance ultra-high vacuum productivity.

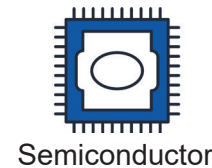
## Overview

The SilcoGuard® coating process creates a multi-layered barrier coating of amorphous silicon designed specifically for low outgassing characteristics (patent info at [www.silcotek.com/IP](http://www.silcotek.com/IP)). These barrier coatings help repel moisture while not interfering with knife-edge or seal integrity due to its thin profile. System contamination is quickly removed with SilcoGuard® treated vacuum components.

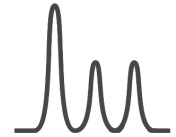


## Key Applications and Benefits

- Reduce vacuum pump-down times
- Improve yields by preventing wall reactivity and ion contamination
- Eliminate burn-in or stabilization



Semiconductor



Research/Analytical



Vacuum Processing

## SilcoGuard® Specifications

<b>Coating Structure:</b>	Hydrogenated amorphous silicon (a-Si:H)	
<b>Deposition Process:</b>	Thermal chemical vapor deposition (not plasma-enhanced)	
<b>Maximum Temperature:</b>	1410° C*	
<b>Substrate:</b>	Compatibility:	Stainless steel, exotic alloys, ceramics
	Size:	Up to 78" (198 cm)
	Geometry:	Any shape, including complex geometrics
<b>Typical Thickness:</b>	180 - 600 nm	
<b>Hydrophobicity (contact angle):</b>	≥20°	
<b>Allowable pH Exposure:</b>	0 - 8	