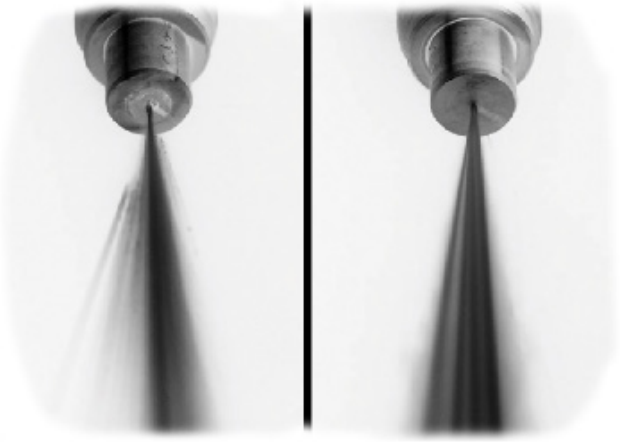
SilcoKlean® 1000

Reducing carbon buildup on combustion-related components.

Overview

SilcoKlean® (patent info at www.silcotek.com/IP) is a protective barrier of amorphous silicon that is further functionalized to specifically prevent the buildup of carbon deposits on high temperature stainless steel and ceramic components. Applied via chemical vapor deposition (CVD), SilcoKlean® is the best solution for carbon coking due to its robust and inert properties.



Key Applications and Benefits

- Non-line-of-sight process; all holes and complex geometries will be coated
- Suitable for high temperature use
- Reduce unwanted build-up
- Cut downtime and costs

Automotive

Aerospace

Stack/Flare

Refining

SilcoKlean® Specifications

Coating Structure:	Functionalized hydrogenated amorphous silicon
Deposition Process:	Thermal chemical vapor deposition (not plasma-enhanced)
Maximum Temperature*:	450° C (maximum for functionalization) 1410° C* (melting)
Substrate:	Compatability: Stainless steel, exotic alloys, ceramimcs Size: Up to 78” (198 cm) Geometry: Any shape, including complex geometrics
Typical Thickness:	100 - 500 nm
Hydrophobicity (contact angle):	≥65°
Allowable pH Exposure:	0 - 8