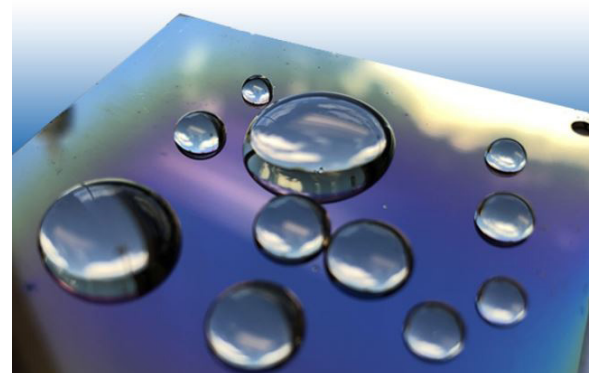


Notak[®]2000

SilcoTek's most hydrophobic surface treatment.

Overview

Notak[®] 2000 is SilcoTek's most hydrophobic surface treatment, using a direct PFAS-free surface functionalization of the substrate to drastically lower surface energy (patent info at www.silcotek.com/IP). Applied via chemical vapor deposition (CVD), the Notak 2000 process directly enhances surfaces to resist unwanted build-up of water, ice, sticky hydrocarbons, and other foulants to improve performance.



Key Applications and Benefits

- Increase hydrophobicity
- Applicable to a wide range of base materials
- Prevent surface fouling
- Stable performance up to 300°C



Chemical Processing



Research



Life Sciences



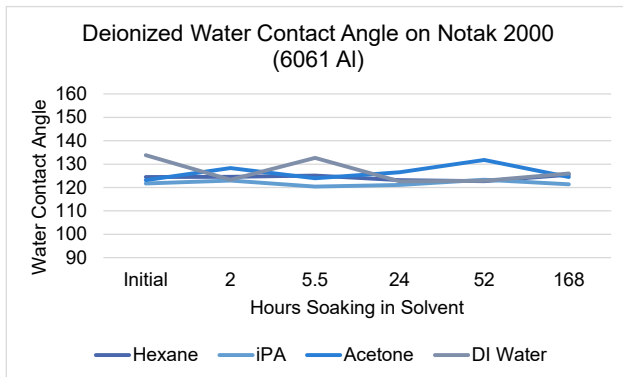
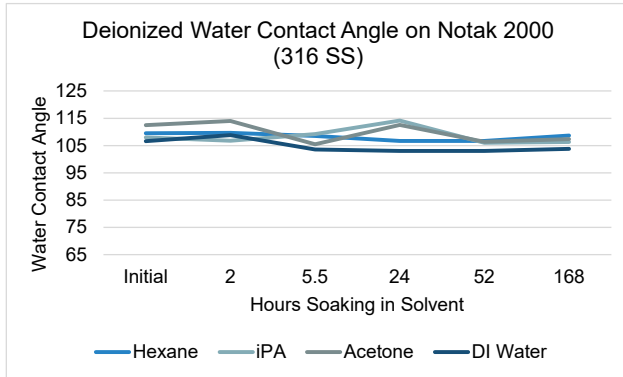
Analytical

Notak[®] 2000 Properties

Coating Structure:	Direct functionalization of base substrate
Deposition Process:	Thermal chemical vapor deposition (not plasma-enhanced)
Maximum Temperature:*	Max in air: 260° C
Substrate:	Compatibility: Stainless steel, Aluminum, Brass, Ceramics Size: Up to 9"x18" maximum (22x45 cm) Geometry: Any shape, including complex geometries
Typical Thickness:	Monolayer treatment, no appreciable thickness
Hydrophobicity (contact angle):	Water: 101° Hexadecane: 33°
pH Exposure*:	Dependent on chemical exposure and substrate material.

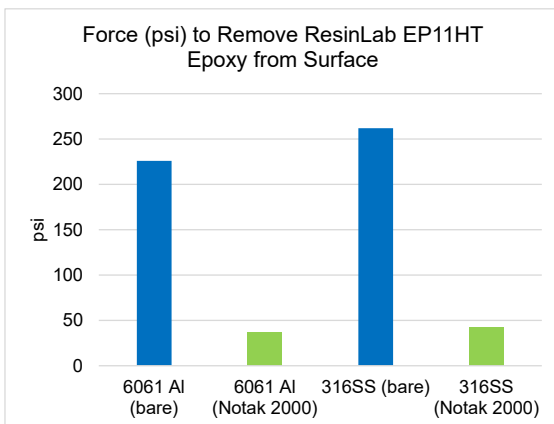
SOLVENT RESISTANT

When applied to 316L stainless steel and 6061 aluminum, the Notak® 2000 process shows excellent resistance over time to n-hexane, isopropyl alcohol (iPA), acetone, and deionized (DI) water.



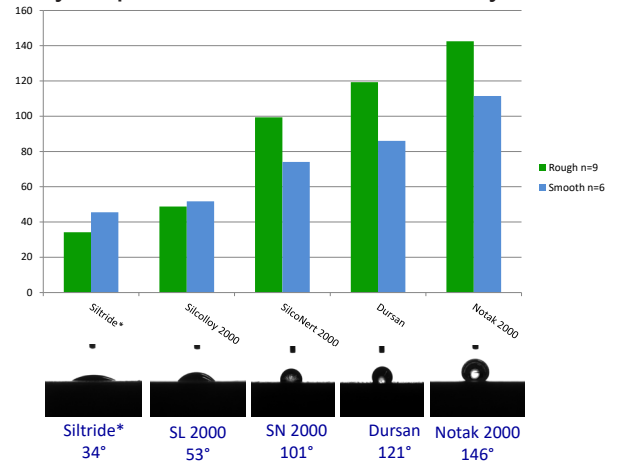
EASY-RELEASE

Notak 2000-treated surfaces show significantly better release to industrial-strength epoxy than untreated 316L stainless steel or 6061 aluminum.



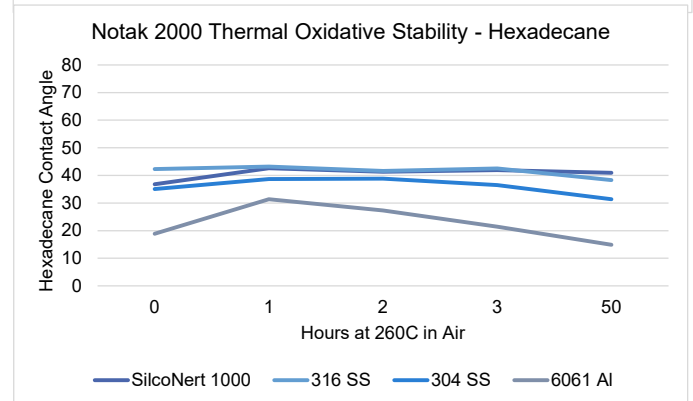
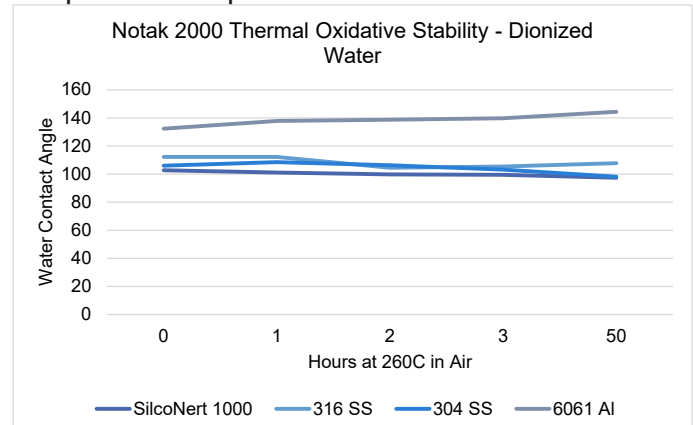
HYDROPHOBIC

Coatings produced by the Notak® 2000 process are hydrophobic, non-stick, and easy to clean.



THERMAL STABILITY

Notak 2000-treated surfaces (SilcoNert 1000 coated 316 SS, 316 SS, 304 SS, and 6061 Al) maintain stable contact angles while in-situ at temperatures up to 260°C.





Game-Changing Coatings™
225 PennTech Dr.
Bellefonte, PA 16823

+1(814) 353-1778
www.SilcoTek.com
Info@SilcoTek.com

*Notak® 2000 refers to the Notak® 2000 process, which is a thermal chemical vapor deposition process that we perform to enable your parts to have the properties identified above.