

Coating Chemical Compatibility Guide

✓ Successful Coating C Contact SilcoTek for Clarification X Not Successful Coating

Chemicals (Room Temp.)		Silco- (SilcoNert®, SilcoKlean®, SilcoGuard®)	Silcolloy®	Dur- (Dursan® & Dursox®)	Notak®	Siltride®
Acetic Acid	C ₂ H ₄ O ₂	✓	✓	✓	C	✓
Acetone	C ₃ H ₆ O	✓	✓	✓	✓	✓
Ammonia	NH ₃	C	C	C	C	C
Ammonium Fluoride	NH ₄ F	C	C	C	X	C
Ammonium Hydroxide	NH ₄ OH	C	C	C	X	C
Argon	Ar	✓	✓	✓	✓	✓
Arsine	AsH ₃	✓	✓	✓	C	✓
Boron Tribromide	BBr ₃	✓	✓	✓	C	✓
Boron Trichloride	BCl ₃	✓	✓	✓	C	✓
Carbon Dioxide	CO ₂	✓	✓	✓	✓	✓
Carbon Tetrafluoride	CF ₄	✓	✓	✓	✓	✓
Chlorine	Cl ₂	✓	✓	✓	C	✓
Dichloromethane	CH ₂ Cl ₂	✓	✓	✓	✓	✓
Disilane	Si ₂ H ₆	✓	✓	✓	C	✓
Helium	He	✓	✓	✓	✓	✓
Hexafluoroethane	C ₂ F ₆	✓	✓	✓	✓	✓
Hexamethyldisilazane	C ₆ H ₁₉ Si ₂ N	✓	✓	✓	C	✓
Hydrochloric Acid* (5%)	HCl	✓	✓	✓	X	✓
Hydrochloric Acid* (18%)	HCl	X	✓	✓	X	✓
Hydrochloric Acid* (37%)	HCl	X	C	C	X	C
Hydrofluoric Acid	HF	C	C	C	X	C
Hydrogen	H ₂	✓	✓	✓	✓	✓
Hydrogen Bromide**	HBr	C	✓	✓	X	✓
Hydrogen Peroxide	H ₂ O ₂	C	✓	C	C	C
Hydrogen Sulfide	H ₂ S	C	C	C	X	C
Isopropyl Alcohol	C ₃ H ₈ O	✓	✓	✓	✓	✓
Methanol	CH ₃ OH	✓	✓	✓	✓	✓
Nitric Acid	HNO ₃	✓	✓	✓	C	✓
Nitrogen	N ₂	✓	✓	✓	✓	✓
Nitrogen Trifluoride	NF ₃	C	C	C	X	✓
n-Methyl 2-Pyrrolidone	C ₅ H ₉ NO	✓	✓	✓	✓	✓
Octafluorocyclobutone	C ₄ F ₈	✓	✓	✓	✓	✓
Oxygen	O ₂	✓	✓	✓	✓	✓
Ozone	O ₃	✓	✓	✓	C	✓
Phosphine	PH ₃	✓	✓	✓	C	✓
Phosphoric Acid	H ₃ PO ₄	✓	✓	✓	C	✓
Phosphoric Oxychloride	POCl ₃	C	✓	C	X	C
Potassium Hydroxide	KOH	X	X	C	X	C
Silane	SiH ₄	✓	✓	✓	✓	✓
Sulfur Hexafluoride	SF ₆	✓	✓	✓	X	✓
Sulfuric Acid	H ₂ SO ₄	C	C	C	X	C
Tungsten Hexafluoride	WF ₆	C	C	C	X	C
Water	H ₂ O	✓	✓	✓	✓	✓
DI Water	H ₂ O	✓	✓	✓	✓	✓

* Based on 24-hour exposure data.

** Based on 264-hour exposure data.