Siltek® Coated Vials

For a highly inert surface, we recommend Siltek® deactivation for your vials:

- Maximizes inertness, minimizes sample breakdown—ideal for difficult matrices and reactive compounds.
- Inert over a wide sample pH range.
- Low bleed.
- Thermally stable.

Siltek® deactivation produces a highly inert glass surface that features high temperature stability, extreme durability, and low bleed. Try Siltek® deactivated vials for better recovery of sample analytes.

For Siltek® vials, add the corresponding suffix number to the vial catalog number.

Qty.	Siltek Deactivation	
100-pk.	-222	addl. cost
1000-pk.	-223	addl. cost

Septum Selection Guide

Materials	Compatibility	Incompatibility	Resealability	Max. Temp.
Red Rubber (synthetic)	acetone, alcohols, DMF, DMSO, ether	ACN, benzene, chloroform, heptane, hexane, pyridine, THF, toluene	very good	90 °C
PTFE/ Natural Rubber	PTFE: resistance until punctured Rubber: acetone, ACN, alcohols, diethylamine, DMF, DMSO, phenol	aromatics, carbon disulfide, chlorinated solvents, hydrocarbon solvents	very good	90 °C
PTFE/Silicone PTFE/Silicone/PTFE	PTFE: resistance until punctured Silicone: acetone, alcohols, DMF, DMSO, ether	ACN, benzene, chloroform, heptane, hexane, pyridine, THF, toluene	very good	205 °C
Polyethylene	Good resistance to solvents and weak acids or bases. Unreactive with most chemicals, but some solvents cause softening or swelling.	hydrocarbon solvents	one-time use	175 °C
Gray Chlorobutyl	acids or bases, water solutions, buffer solutions, oxygenated solvents, vegetable oils	aliphatic or aromatic hydrocarbons, halogenated solvents, mineral oils, strong acids	very good	100 °C

Abbreviations: ACN = acetonitrile, DMF = dimethylformamide, DMSO = dimethylsulfoxide, THF = tetrahydrofuran

NOTE: This chemical resistance chart is intended only as a guideline. It does not cover all compounds or all solvents. Tests were done at room temperature on pure, single solvents, and there is no data on solvent combinations. Always confirm the compatibility of your vial, closure, and chemical combination prior to sample preparations.

instrument **reference**

For 2.0 mL, 11 mm Crimp-Top Vials

The following instruments are compatible with 2.0 mL, 11 mm crimp-top vials. For further information or questions, please contact your Restek sales representative or technical service.

Manufacturer	Instrument/Model #
A.I.M.	CPS -100, 200
A.I.	42 vial tray
Agilent	1042, 1050, 1080, 1082, 1084, 1090, 1100, 5890, 6850, 6890, 7670A, 7671A, 7672, 7673A/B, 7683, 7890, 8042
Alcott	738
Alltech	570, 580 (standard tray)
Altex	
AMS	42
Antek	736 Unisampler, 738
ASC	
Carlo Erba/ Fisons	42 vial tray AS 800
Carnegie	CMA-250/200
Chrompack	CP 9000 GC Series
CTC	CTC A105S
Dani	ALS 39.80, 86.80
Delsi	
Dynatech	42 vial tray
Fisons	42 vial tray, AS800
GBC	
Gerstel	

Manufacturer	Instrument/Model #
Gilson	231 XL, 232 XL, 233 XL, Asted XL, Aspec XL
Gynkotek	Gina, others
Hitachi	AS-2000, AS-6000
IBM	
ICI	other than LC 1600
Infochroma	
Jasco	851-AS, AS-950
Kipp	
Kontron	360
LDC	Marathon, Promis, other than 713
L.E.A.P. Technologies	CTC A200S, CTC A105S
Magnus Scientific	
PerkinElmer	Autosystem GC, AI-1, Integral 4000, ISS 100, ISS 200, LC 600 42 vial tray, 420/B, 4900
Pharmacia LKB	2157-010
Precision Sampling	GC111, GC 311, LC 241-60
Phillips	LC-XP, 4247, 4710
Polymer-Labs	GPC 110/210
Pye	LCXP
S.G.E.	M280D

Manufacturer	Instrument/Model #
Sedere	
Shimadzu	SIL-10A, 10Ai, 10AxL, AOC 20i
Siemens	AS 32, AS 200
Spark Holland	SPH 125, Marathon, Promis, Triathlon, Midas
Spectra-Physics	8875, 8880
Talbot	
Thermo Scientific	TRACE GC 2000, AS2000
TosoHaas	TSK-6080, AS-8010, AS-8020
Tosca 1	
Tracor	770, 771, 772
TSP	8875, 8880, AS 100/1000, AS 300/3000
Unicam	4710, LC-XP, 4247
United Technologies	
Varian/Rainin	Dynamax AI-IA, AI-200, Dynamax AI-3
Varian	8100/8200, 9100/9090/9095, Marathon
Waters	Alliance 2690