

SiliaChrom™ HPLC Columns by **SILICYCLE** Inc. *UltraPure SILICA GELS*

SiliCycle® Inc. manufactures a variety of HPLC columns for reversed phase and normal phase applications. The SiliaChrom series contain more than 20 different phases, and we continue to develop additional unique and powerful HPLC columns. Most of the SiliaChrom product line is based on silica that we produce in our own laboratories since 1995. In fact, you can be completely assured of the quality, from raw material synthesis through packing, testing and customer applications.

ID (mm)	Analytical	Semi-Preparative	Preparative
	2.1, 3.0, 4.6	10.0, 20.0	30.0, 50.0

SiliCycle HPLC Family	*Temperature Limit (°C)	Pressure Limit (psi)
SB C8, C18	50	4 500
XDB C8, C18	60	5 500
XDB1 C4, C8, C18, PHENYL, CN	60	5 500
XDB1 AMINO, DIOL, SI	45	4 000
SCX, SAX	45	5 000
HILIC, AQ C18, XDB2 C18, dt C18	65	5 000
XT	90	5 000
*At pH rang (5.0-7.5)		



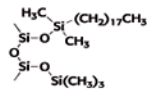
SiliaChrom
HPLC columns for the most popular HPLC applications presenting superior performance for any type of compounds.

- Broad pH range (0.8-12.0)
- Compatible with 100% aqueous mobile phase
- High surface coverage
- Minimum buffer concentration needed
- Low bleed
- Wide variety of chemistries available
- Excellent column efficiency
- Long column lifetime
- Tightest specification

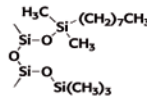
Acid	Base	Neutral		Ionic
		Hydrophobic	Hydrophilic	
SiliaChrom SB C18	SiliaChrom XDB C8&C18	SiliaChrom XDB C8&C18	SiliaChrom AQ C18	SiliaChrom SCX & SAX
SiliaChrom SB C8	SiliaChrom XDB1 C8&C18	SiliaChrom XDB1 C8&C18	SiliaChrom HILIC	SiliaChrom IEC SC & WC
SiliaChrom AQ C18	SiliaChrom XDB2 C18	SiliaChrom XDB2 C18	SiliaChrom XDB1 DIOL	SiliaChrom IEC SA & WA
SiliaChrom HILIC	SiliaChrom AQ C18	SiliaChrom dtC18	SiliaChrom dtC18	
SiliaChrom dtC18	SiliaChrom HILIC	SiliaChrom XDB1 C4	SiliaChrom XDB1 Si	
	SiliaChrom dtC18	SiliaChrom XDB1 PHENYL		
	SiliaChrom XDB1 CN	SiliaChrom RPC		
	SiliaChrom XDB1 AMINO			
	SiliaChrom XT C18			

SiliCycle® HPLC Columns	Pore Size	Particle Size	Surface Area	CarbonLoading	pH Range	USP Code	Applications	Chromatographic Properties	Similar Phases
SiliaChrom SB C18	150Å	3.0, 5.0µm	200-220m²/g	12%	0.8-7.5	L01	Ideal for MS and ELSD of neutral to slightly polar analytes	Very stable at low pH (1.0), low bleeding for LC-MS	Zorbax SB C18, Lichrospher RP C18
SiliaChrom SB C8	150Å	3.0, 5.0µm	200-220m²/g	7%	1.0-7.5	L07	Selectivity and peak shape similar to SiliaChrom SB C8	Very stable at low pH (1.0), low bleeding for LC-MS	Zorbax SB C8
SiliaChrom AQ C18	100Å	3.0, 5.0µm	380m²/g	18%	1.5-9.0	L01	Ideal for analyses that require > 90% water (buffer)	Accepts very aqueous (or buffer) mobile phases	Zorbax SB Aq, Atlantis dC18, Inertsil ODS-3
SiliaChrom HILIC	100Å	3.0, 5.0µm	410-440m²/g	8%	2.0-8.0	Please Call	Ideal for MedChem laboratories-Isolation of very polar analytes	Accepts normal and reversed phases conditions	Unique
SiliaChrom XT C18	150Å	3.0, 5.0µm	200m²/g	15%	1.5-12.0	L01	Excellent durability for high pH-Ideal for basic compounds	Very stable at high pH (up to 12), low bleeding for LC-MS	Unique, Gemini, Gemini NX
SiliaChrom XDB C18	150Å	3.0, 5.0µm	200m²/g	15%	1.5-10.0	L01	Ideal for barbiturates, fat-soluble vitamins, fatty acids, steroids	Designed for larger molecules and highly hydrophobic compounds	Symmetry C18, Zorbax XDB C18, Discovery C18
SiliaChrom XDB C8	150Å	3.0, 5.0µm	200m²/g	8%	1.5-10.0	L07	Selectivity and peak shape similar to SiliaChrom XDB C18	Less hydrophobic than SiliaChrom XDB C18	Symmetry C8, Zorbax XDB C8
SiliaChrom XDB1 C18	100Å	3.0, 5.0µm	380-400m²/g	22%	1.5-10.0	L01	Hydrophobic C18 phase suitable for analyses of a wide range of compounds	Designed for maximum hydrophobicity and efficiency for dirty sample	Sunfire C18, Luna C18, Ascentics C18, Altima HP C18
SiliaChrom XDB1 C8	100Å	3.0, 5.0µm	380-400m²/g	14%	1.5-10.0	L07	Applications similar to SiliaChrom XDB1 C18	Less hydrophobic than SiliaChrom XDB1 C18-Good C8 for high pH	Sunfire C8, Luna C8, Ascentics C8
SiliaChrom XDB1 CN	100Å	5.0µm	380-400m²/g	5%	2.0-9.0	L10	Excellent for basic pharmaceuticals, steroid and other basic compounds	Maximum hydrophobicity and accepts normal and reverse phases conditions	Luna CN, Zorbax SB CN
SiliaChrom XDB1 Si	100Å	3.0, 5.0µm	380-400m²/g	Not Applicable	1.0-7.0	L03	Ideal for normal phase applications	Designed for normal phase condition--High surface area-Very low metal content	Luna HILIC, Luna Silica
SiliaChrom XDB1 PHENYL	100Å	5.0µm	380-400m²/g	12%	1.5-10.0	L11	Ideal for polynuclear aromatic hydrocarbons, purines and polar aromatics	Highly retentive phase for aromatic and unsaturated compounds	Zorbax SB Phenyl
SiliaChrom XDB1 DIOL	100Å	5.0µm	380-400m²/g	5%	2.0-8.0	L20	Excellent for normal phase applications with more hydrophobic activity	Highly cyano phase with reduced silanolic activity	Nucleosil Diol, Luna Diol
SiliaChrom XDB1 AMINO	100Å	5.0µm	380-400m²/g	6%	2.0-9.0	L08	Superior general purpose amino phase. Ideal for carbohydrates	Recommended for normal phase analysis	Luna NH2
SiliaChrom XDB1 C4	100Å	5.0µm	380-400m²/g	7%	1.5-10.0	L26	Ideal for peptides and small proteins	Exceptionally stable C4 with high bonding coverage at low silanolic activity	Jupiter C4
SiliaChrom SCX	100Å	3.0, 5.0µm	380m²/g	10%	2.0-8.5	L09	Ideal for charged analytes	Highly retentive phase for strong cation exchanger chromatography	Luna SCX
SiliaChrom SAX	100Å	3.0, 5.0µm	380m²/g	6%	2.0-8.5	L14	Ideal for charged analytes	Highly retentive phase for strong anion exchanger chromatography	Agilent SB-SAX
SiliaChrom XDB2 C18	100Å	3.0, 5.0µm	380m²/g	18%	1.5-10.0	L01	Perfect peak symmetry for acidic, basic and neutral compounds	A very retentive phase that exhibits excellent peak shape for a wide range of compounds	Sunfire C18, Luna C18(2)
SiliaChrom dtC18	100Å	2.5, 3.0, 5.0µm	410-440m²/g	18%	1.5-9.0	L01	Universal C18 for most popular applications (highest purity of silica gel)	Highly retentive and selective for reversed phase separation of neutral and polar analyte	Unique YMC ODS AQ C18, Atlantis T3, Atlantis dtC18

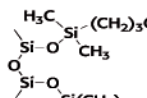
SiliaChrom XDB, XDB1 and XDB2 C18



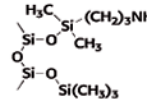
SiliaChrom XDB, XDB1 C8



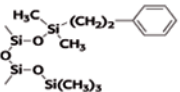
SiliaChrom XDB1 CN



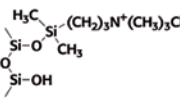
SiliaChrom XDB1 AMINO



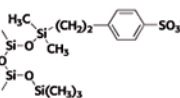
SiliaChrom XDB1 PHENYL



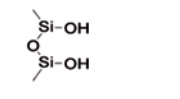
SiliaChrom SAX



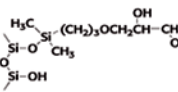
SiliaChrom SCX



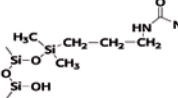
SiliaChrom XDB1 Si



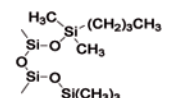
SiliaChrom XDB1 DIOL



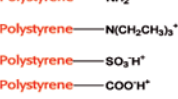
SiliaChrom HILIC



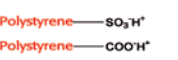
SiliaChrom XDB1 C4



Polystyrene-NH2



Polystyrene-N(CH2CH3)3Cl-



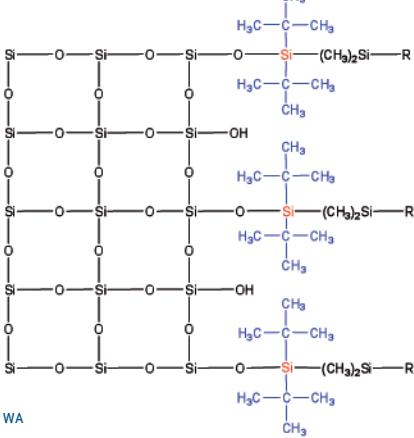
Polystyrene-SO3H+



Polystyrene-COOH+



SiliaChrom SB C8 R=(CH2)7CH3
SiliaChrom SB C18 R=(CH2)17CH3



SiliaChrom IEC WA

SiliaChrom IEC SA

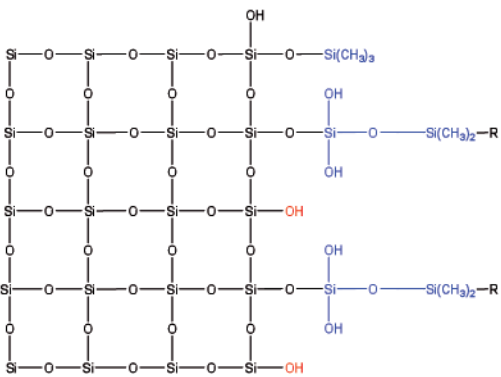
SiliaChrom IEC SC

SiliaChrom IEC WC

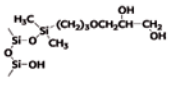
PSDVB Polystyrene - Divinylbenzene Polymer

SiliaChrom RPC

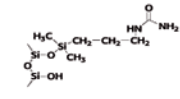
SiliaChrom AQ C18 R=(CH2)17CH3
SiliaChrom dtC18 R=(CH2)17CH3 (very pure silica gel)



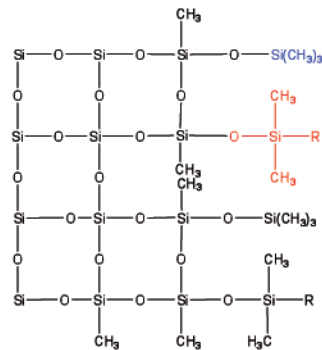
SiliaChrom GF-100 (100 Å)



SiliaChrom GF-300 Amide (300 Å)

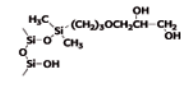


SiliaChrom XT C18 R=(CH2)17CH3

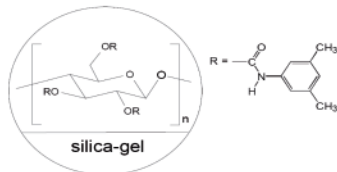


Size Exclusion Columns (Silica Based)

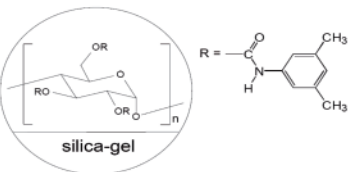
SiliaChrom GF-300 (300 Å)



CHIRAL
SiliaChrom OD



CHIRAL
SiliaChrom AD



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