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 30 different phases, and we continue to develop additional unique and powerful HPLC column. Most of the SiliaChrom™ product line are based on silica we produce in our own laboratories since 1995. In fact, you can be completely assured of the quality, from raw materiel synthesis through packing, testing and customer's applications.

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

SiliaChrom™

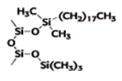
HPLC columns for the most popular HPLC applications presenting superior performance for any type of compounds.

- 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™ dtC18	SiliaChrom™ XDB1 PHENYL		
	SiliaChrom™ XDB1 CN	SiliaChrom™ XDB1 Si		
	SiliaChrom™ XDB1 AMINO	SiliaChrom™ RPC		
	SiliaChrom™ XT C18			

SiliCycle® HPLC Columns	Pore Size	Particule Size	Surface Area	Carbon Loading	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)	Accept 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	Accept 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 maxiumum 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, Ascentis 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 accept 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	Destined for normal phase conditions--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 an 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 silianol 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. Idel for carbohydrates	Recommanded 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	Exceptionnally stable C4 with high bonding coverage at low silianol activity	Jupiter C4
SiliaChrom™ SCX	100Å	3.0,5.0µm	380m²/g	10%	Not Applicable	L09	Ideal for charged analytes	Highly retentive phase for strong cation exchanger chromatograpy	Luna SCX
SiliaChrom™ SAX	100Å	3.0,5.0µm	380m²/g	6%	Not Applicable	L14	Ideal for charged analytes	Highly retentive phase for stong 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 exibits 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



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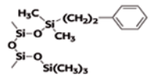

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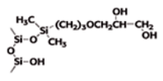

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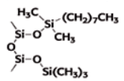

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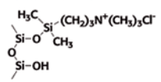

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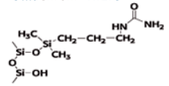

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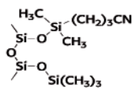

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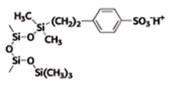

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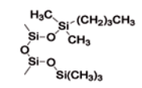

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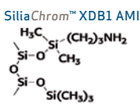
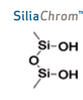
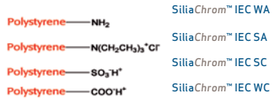


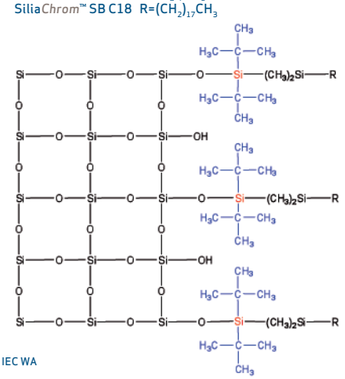
SiliaChrom™ Si





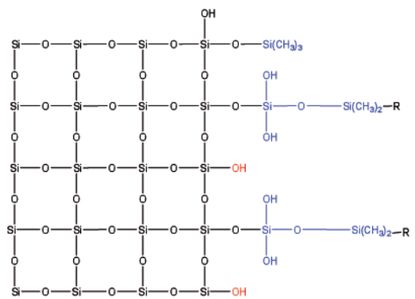
SiliaChrom™ IEC WA
SiliaChrom™ IEC SA
SiliaChrom™ IEC SC
SiliaChrom™ IEC WC

SiliaChrom™ SB C8 R=$(CH_2)_7CH_3$
SiliaChrom™ SB C18 R=$(CH_2)_{17}CH_3$

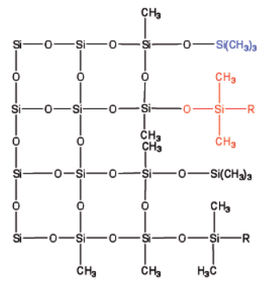


PSDVB Polystyrene - Divinylbenzene Polymer
SiliaChrom™ RPC

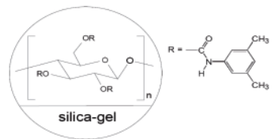
SiliaChrom™ AQ C18 R=$(CH_2)_{17}CH_3$
SiliaChrom™ dtC18 R=$(CH_2)_{17}CH_3$ (very pure silica gel)



SiliaChrom™ XT C18 R=$(CH_2)_{17}CH_3$



CHIRAL
SiliaChrom™ OD



CHIRAL
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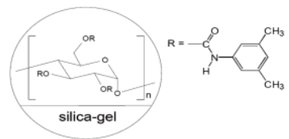
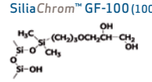
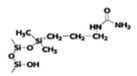


Size Exclusion Columns (Silica Based)

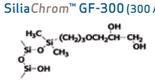
SiliaChrom™ GF-100 (100 A)



SiliaChrom™ GF-300 Amide (300 A)



SiliaChrom™ GF-300 (300 A)



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