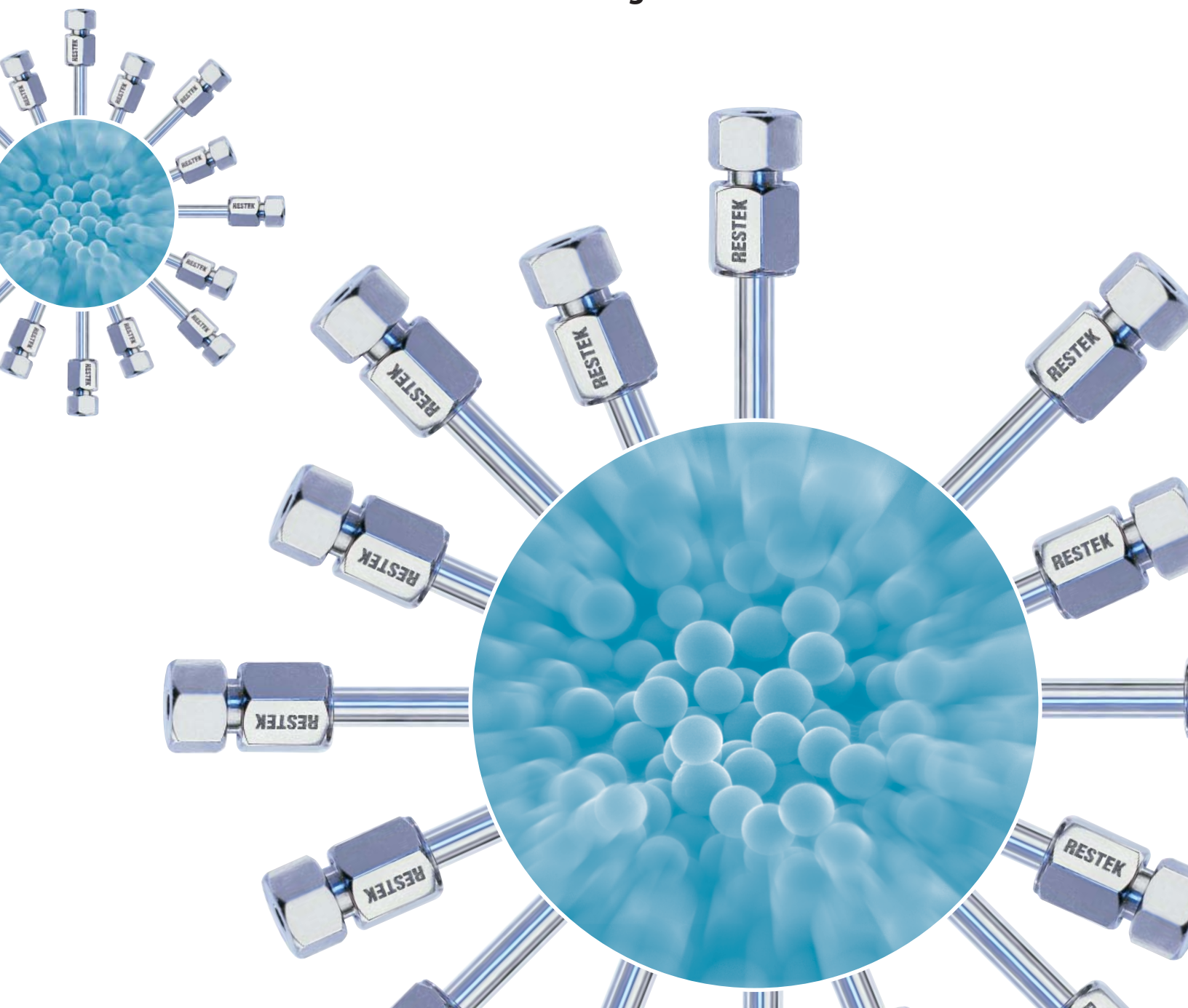


Kromasil® Chromatography Products

Restek – Your One Source for Kromasil® HPLC Columns
and Bulk Packing Materials



HROMalytic Chromatography
Products '08
Australian Distributors **TECH**nology

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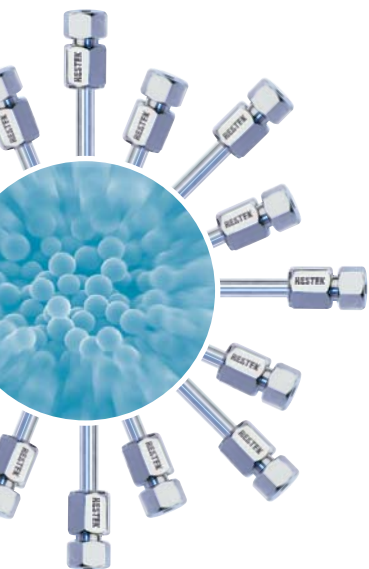


Turning Visions into Reality™

www.restek.com

Kromasil® Chromatography Products

- Perfectly spherical, totally porous HPLC silica products from Kromasil.
- Wide range of bonded phases and particle sizes.
- Excellent chemical purity and stability, for highly efficient, reproducible separations.



HPLC grade silica materials differ greatly from one manufacturer to another. Factors that affect the selectivity of a silica substrate include surface area, pore structure, pore diameter distribution, and chemical purity of the silica substrate. Kromasil® HPLC silica products consist of highly spherical, porous particles in sizes from 3.5µm to 16µm and larger. The surface properties of the silica have been optimized, and include a narrow pore size distribution and a well-defined pore structure. For chromatographic separations, these properties ensure higher efficiencies, lower pressure drops, and excellent lot-to-lot reproducibility.

Kromasil® spherical silicas are produced using a sol-gel technique, which yields a mechanically strong particle with a large surface area (330m²/g for 100Å silica). Metal impurities are carefully monitored, as trace metals in the silica structure increase the surface acidity, resulting in tailing peaks for basic or chelating compounds. Typical metal content for Kromasil® silicas is shown in Table 1.

Table 1 Typical chemical purity for Kromasil® spherical silicas, based on AAS or ICP measurement.

Metal	Content (ppm)
Na	<20
Al	<10
Fe	<10

Kromasil® bonded phases are manufactured using monofunctional silanes, for higher surface coverage and greater reproducibility. Bonding is followed by an end-capping procedure, which further increases chemical stability.

Restek offers all Kromasil® phases, in a full range of column dimensions and silica particle sizes. A sampling of our product offering is shown here. For further information about Kromasil® products available from Restek, please contact Restek technical service at 800-356-1688, ext. 4, 814-353-1300, ext. 4, or support@restek.com

Kromasil® HPLC Columns

Physical Characteristics:

particle size: 3.5µm or 5µm, spherical
pore size: 100Å

endcap: fully endcapped bonded phases
pH range: 1.5 to 10

Kromasil® C18 Columns

average carbon load: 20%

Length	2.1mm ID cat.#	3.2mm ID cat.#	4.6mm ID cat.#
3.5µm Columns			
30mm	9204332		9204335
50mm	9204352		9204355
100mm	9204312		9204315
150mm	9204362		9204365
5µm Columns			
30mm	9204532	9204533	9204535
50mm	9204552	9204553	9204555
100mm	9204512	9204513	9204515
150mm	9204562	9204563	9204565
200mm	9204522	9204523	9204525
250mm	9204572	9204573	9204575

Kromasil® C4 Columns

average carbon load: 8%

Length	2.1mm ID cat.#	3.2mm ID cat.#	4.6mm ID cat.#
5µm Columns			
30mm	9202532	9202533	9202535
50mm	9202552	9202553	9202555
100mm	9202512	9202513	9202515
150mm	9202562	9202563	9202565
200mm	9202522	9202523	9202525
250mm	9202572	9202573	9202575



PEEK® Fitting Extractor

Drill into the broken fitting, then screw the extractor into the fitting and remove it easily. Eliminates the need for heat or other techniques that could damage your column.

qty.	cat.#
ea.	25325

Kromasil® C8 Columns

average carbon load: 12%

Length	2.1mm ID cat.#	3.2mm ID cat.#	4.6mm ID cat.#
3.5µm Columns			
30mm	9203332		9203335
50mm	9203352		9203355
100mm	9203312		9203315
150mm	9203362		9203365
5µm Columns			
30mm	9203532	9203533	9203535
50mm	9203552	9203553	9203555
100mm	9203512	9203513	9203515
150mm	9203562	9203563	9203565
200mm	9203522	9203523	9203525
250mm	9203572	9203573	9203575

Kromasil® C1 Columns

average carbon load: 5%

Length	2.1mm ID cat.#	3.2mm ID cat.#	4.6mm ID cat.#
5µm Columns			
30mm	9201532	9201533	9201535
50mm	9201552	9201553	9201555
100mm	9201512	9201513	9201515
150mm	9201562	9201563	9201565
200mm	9201522	9201523	9201525
250mm	9201572	9201573	9201575

Kromasil® Phenyl Columns

average carbon load: 10%

Length	2.1mm ID cat.#	3.2mm ID cat.#	4.6mm ID cat.#
5µm Columns			
50mm	9205552	9205553	9205555
150mm	9205562	9205563	9205565
250mm	9205572	9205573	9205575

Kromasil® Amino Columns

load: 1.7% nitrogen

Length	2.1mm ID cat.#	3.2mm ID cat.#	4.6mm ID cat.#
5µm Columns			
50mm	9207552	9207553	9207555
150mm	9207562	9207563	9207565
250mm	9207572	9207573	9207575

Kromasil® Silica Columns

Length	2.1mm ID cat.#	3.2mm ID cat.#	4.6mm ID cat.#
5µm Columns			
30mm	9200532	9200533	9200535
50mm	9200552	9200553	9200555
100mm	9200512	9200513	9200515
150mm	9200562	9200563	9200565
200mm	9200522	9200523	9200525
250mm	9200572	9200573	9200575



HPLC 30-Column Storage Cabinet

- Saves space and protects columns.*
- Hinged door is clear for quick identification of column labels or tags.
- Made from solid, durable PVC.
- Easy-to-install, wall-mountable (screws not included), securely holds 30 columns.

(Dimensions: 17^{3/8} x 15 x 2^{7/8}")

qty.	cat.#
ea.	25159

*Please note: Columns in photograph are not included.



did you know?

Restek offers an extensive line of replacement parts for Agilent, Beckman, Hitachi, PerkinElmer, Shimadzu, Thermo Separation Products, and Waters systems. All parts meet or exceed original equipment manufacturer's performance and are backed with Restek Plus 1 Service! For more information, visit us online or request lit. cat. #59012A.



Restek's Exclusive Trident™ Integral System

- Convenient and economical leak-free guard cartridge system, extremely easy to install.
- Versatile configuration protects against all levels of contamination.
- Integral design eliminates troublesome tubing connections.

For maximum protection against contaminants and particulate matter, the system can be configured with an integral guard cartridge holder (XG-XF), a guard cartridge, and a replaceable external frit. To obtain this configuration, simply order any Restek HPLC column, add the suffix -700 to the catalog number for the column, order the appropriate XG-XF male fitting (cat.# 25026 or 25062, below) and order the appropriate Kromasil® guard cartridges.

Description	qty.	cat.#
XG-XF Fitting for 10mm Guard Cartridge	ea.	25026
XG-XF Fitting for 20mm Guard Cartridge	ea.	25062
Replacement XF Filter Fitting	ea.	25024
Replacement Cap Frits: 4mm, 2.0µm	5-pk.	25022
Replacement Cap Frits: 4mm, 0.5µm	5-pk.	25023
Replacement cap frits: 2mm, 2.0µm	5-pk.	25057



Kromasil® Guard Cartridges

Guard Cartridges	3-pk. (10 x 2.1mm)	3-pk. (10 x 4.0mm)	2-pk. (20 x 2.1mm)	2-pk. (20 x 4.0mm)
Kromasil® C1	920150212	920150210		920150220
Kromasil® C4	920250212	920250210		920250220
Kromasil® C8	920350212	920350210		920350220
Kromasil® C18	920450212	920450210		920450220
Kromasil® Amino	920750212	920750210	920750222	920750220
Kromasil® Phenyl	920550212	920550210	920550222	920550220
Kromasil® Silica	920050212	920050210		920050220

Kromasil® Bulk Packings

- High-purity packing materials in 10µm or 16µm.
- All Kromasil® phases available.

Also available from Restek: Kromasil 60Å silica, cyano, and diol phases, as well as 300Å silica, C4, C8, and C18 phases. Please call Restek technical service for more information.



Description	min. qty.	cat.#	200-499 grams	500-999 grams	≥1000 grams
Kromasil® 100Å Silica, 10µm	200g	92000			
Kromasil® 100Å Silica, 16µm	200g	92001			
Kromasil® 100Å C8, 10µm	200g	92030			
Kromasil® 100Å C8, 16µm	200g	92031			
Kromasil® 100Å C18, 10µm	200g	92040			
Kromasil® 100Å C18, 16µm	200g	92041			
Kromasil® 100Å Chiral DMB, 10µm	200g	92080			
Kromasil® 100Å Chiral DMB, 16µm	200g	92081			
Kromasil® 100Å Chiral TBB, 10µm	200g	91990			
Kromasil® 100Å Chiral TBB, 16µm	200g	91991			

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