

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.

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 and can lead to tailing peaks for basic or chelating compounds. Typical metal content for Kromasil® silicas is shown in Table I.

Table I Typical chemical purity for Kromasil® spherical silicas.

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

Values based on AAS or ICP measurements.

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
pH range: 1.5 to 10

Kromasil® C18 Columns (USP L1)

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

also available

For guard cartridges for these columns, see page 339.

Kromasil® C4 Columns (USP L26)

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

Kromasil® C8 Columns (USP L7)

average carbon load: 12%

Length	2.1mm ID	3.2mm ID	4.6mm ID
	cat.#	cat.#	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



Sean Nolan
Materials Manager
8+ years of service!

Kromasil® C1 Columns (USP L13)

Length	2.1mm ID	3.2mm ID	4.6mm ID
	cat.#	cat.#	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 (USP L11)

average carbon load: 14%

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

Kromasil® Amino Columns (USP L8)

nitrogen load: 1.7%

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

Kromasil® Silica Columns (USP L3)

Length	2.1mm ID	3.2mm ID	4.6mm ID
	cat.#	cat.#	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

also available

Other Kromasil® column dimensions, phases, and particle sizes are available. Please contact Technical Service at 800-356-1688 or 814-353-1300, ext. 4, or contact your Restek representative.

free literature**Kromasil® Chromatography Products**

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