

### 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 (330m<sup>2</sup>/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.

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

**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® 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<br>cat.# | 3.2mm ID<br>cat.# | 4.6mm ID<br>cat.# |
|----------------------|-------------------|-------------------|-------------------|
| <b>3.5µm Columns</b> |                   |                   |                   |
| 30mm                 | 9204332           | —                 | 9204335           |
| 50mm                 | 9204352           | —                 | 9204355           |
| 100mm                | 9204312           | —                 | 9204315           |
| 150mm                | 9204362           | —                 | 9204365           |
| <b>5µm Columns</b>   |                   |                   |                   |
| 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<br>cat.# | 3.2mm ID<br>cat.# | 4.6mm ID<br>cat.# |
|--------------------|-------------------|-------------------|-------------------|
| <b>5µm Columns</b> |                   |                   |                   |
| 30mm               | 9202532           | 9202533           | 9202535           |
| 50mm               | 9202552           | 9202553           | 9202555           |
| 100mm              | 9202512           | 9202513           | 9202515           |
| 150mm              | 9202562           | 9202563           | 9202565           |
| 200mm              | 9202522           | 9202523           | 9202525           |
| 250mm              | 9202572           | 9202573           | 9202575           |