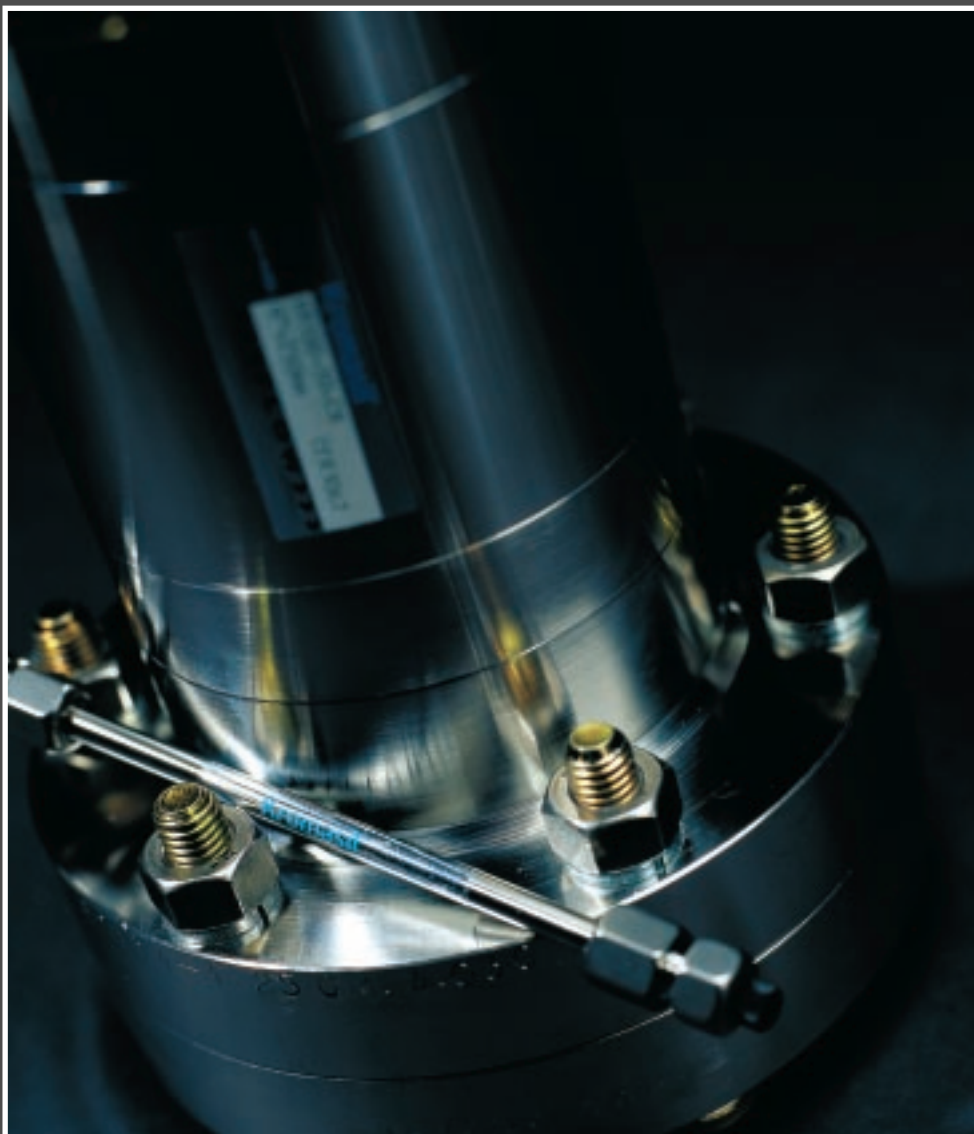


*High Performance  
Chromatography Columns*



**Kromasil®**

*The way to peak performance  
in liquid chromatography*

# Kromasil® high pressure slurry-packed columns

Kromasil columns are high-pressure slurry-packed with Kromasil spherical silica, 100 Å and 60 Å pore size. Kromasil is a high purity silica with a unique surface chemistry, giving high protein recovery and symmetrical peaks for basic compounds.

Kromasil is mechanically stable up to 10 000 psi, making it possible to slurry-pack at very high pressures, giving extremely stable column beds. The chemical stability is in the pH range of 1.5 to 9.5 for derivatized Kromasil. Kromasil has a high specific surface area, 320 m<sup>2</sup>/g for 100 Å and 550 m<sup>2</sup>/g for 60 Å, giving a high loadability for preparative work.



## Column data

Type of silica	Kromasil 100 Å						Kromasil 60 Å
	4.6	4.6	10	20	50.8	101.4	
Column ID, mm	4.6	4.6	10	20	50.8	101.4	4.6*
Column length, mm	100, 150	150, 250	250	250	250	250	150, 250
Column type	compression	compression	compression	threaded	flanged	flanged	compression
Pressure rating, psi	6000	6000	6000	6000	2000	2000	6000
Particle size, µm (in stock)	3.5	5, 10	10	10	10	–	5, 10
Particle size, µm (available upon request)	–	7, 13, 16	5, 7, 13, 16	5, 7, 13, 16	7, 13, 16	10, 13, 16	7, 13, 16
Phases (in stock)	SIL, C4, C8, C18, NH2	SIL, C4, C8, C18, NH2	SIL, C4, C8, C18	SIL, C4, C8, C18	SIL, C4, C8, C18	–	SIL, CN

Kromasil 5 µm or 10 µm in 21.2 × 50 mm columns for combinatorial chemistry are available upon request.

Kromasil Chiral Phases are available in 5 µm and 10 µm particle size. Column dimensions are 4.6 mm, 10 mm and 20 mm ID, all 250 mm column length. 50.8 mm × 250 mm columns are available upon request.

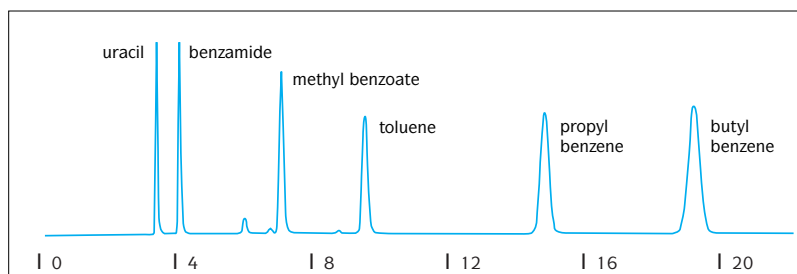
All columns are individually tested and delivered with a test chromatogram.

\* Kromasil 60 Å, SIL and CN, packed in 10 mm, 20 mm and 50.8 mm ID are available upon request.

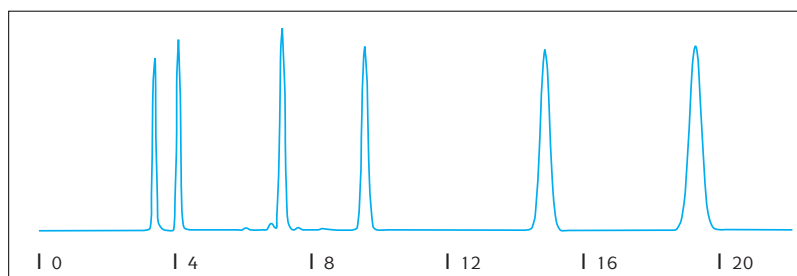
## The same high performance in all column sizes

Kromasil high-pressure slurry-packed columns have a high bed stability and a guaranteed minimum efficiency, the same for all column sizes, making scale-up easy.

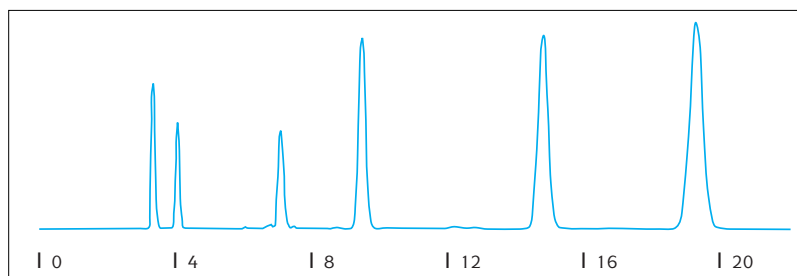
Particle size:	3.5 $\mu\text{m}$	5 $\mu\text{m}$	7 $\mu\text{m}$	10 $\mu\text{m}$	13 $\mu\text{m}$	16 $\mu\text{m}$
Number of plates/m:	130 000	80 000	60 000	40 000	30 000	25 000



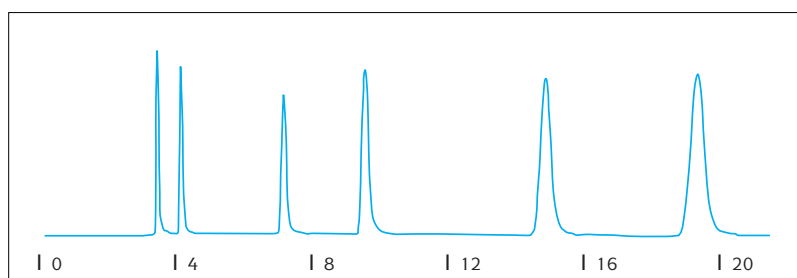
**Column:** 4.6 mm  $\times$  250 mm  
**Packing:** KR100-10-C8  
**Flow rate:** 0.7 ml/min.  
**Linear velocity:** 0.7 mm/s  
**Eluent:** acetonitrile/water = 70/30



**Column:** 10 mm  $\times$  250 mm  
**Flow rate:** 3.3 ml/min.  
**Packing, linear velocity and eluent as above.**



**Column:** 20 mm  $\times$  250 mm  
**Flow rate:** 13.2 ml/min.  
**Packing, linear velocity and eluent as above.**



**Column:** 50.8 mm  $\times$  250 mm  
**Flow rate:** 85.4 ml/min.  
**Packing, linear velocity and eluent as above.**

## Kromasil® high performance spherical silica — also available in bulk

Kromasil, patent Eka Chemicals AB, is manufactured in multi-kilogram batches, with high reproducibility. It is available in particle sizes of 3.5  $\mu\text{m}$ , 5  $\mu\text{m}$ , 7  $\mu\text{m}$ , 10  $\mu\text{m}$ , 13  $\mu\text{m}$  and 16  $\mu\text{m}$ , in 60 Å as unbonded silica or CN, and in 100 Å as unbonded silica or derivatized with C4, C8, C18 or NH<sub>2</sub>. Chiral phases are available in bulk in 5  $\mu\text{m}$ , 10  $\mu\text{m}$  and 16  $\mu\text{m}$  particle sizes.

Kromasil is available in bulk or columns, direct from Eka Chemicals or, for smaller quantities, from our distributors.

The moment you adopt our Kromasil High Performance Concept, you join thousands of chromatographers who share a common goal: to achieve better separations when analyzing or isolating pharmaceuticals or other substances.

Not only will you benefit from our patented silica technology, but you gain a strong partner with a reliable track record in the field of silica products. For the past 60 years, Eka Chemicals has pioneered new types of silica. Our long experience in the field of silica chemistry is the secret behind the development of Kromasil, and the success of our Separation Products Group.

Kromasil is available in bulk, or in high-pressure slurry-packed columns. The development, production and marketing of Kromasil are ISO 9001 certified.

Eka Chemicals is a global company with 3,000 people in 30 countries. It is a business unit within Akzo Nobel, one of the world's largest chemical groups, with more than 67,000 employees in 80 countries.

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**EKA CHEMICALS**

*The difference is knowledge*

