

Kromasil® 300 Å

SIL, C4, C8, C18

High performance spherical silica for analytical to process scale liquid chromatography. RP Kromasil 300 Å is manufactured using monofunctional silanes, and is fully end-capped. This gives high reproducibility and chemical stability.

PRODUCT CHARACTERISTICS

Particle sizes:

5 µm, 10 µm, 16 µm

Particle size distribution:

(Electrical Sensing Zone Method)

dv_{90}/dv_{10} : < 1.70 (10, 16 µm)

< 1.55 (5 µm)

Spec surface area:

110 m²/g (multi-point BET)

Pore volume:

0.9 ml/g (Mercury Intrusion Porosimetry)

Pore size:

300 Å (Mercury Intrusion Porosimetry)

Pore size distribution:

80% ± 100 Å (Mercury Intrusion Porosimetry)

Chemical purity:

Typical figures (AAS or ICP):

Na: < 10 ppm

Al: < 5 ppm

Fe: < 5 ppm

Coverage:

(elemental analysis)

C4: 2.9% C, 3.9 µmol/m²

C8: 4.7% C, 3.8 µmol/m²

C18: 8.7% C, 3.7 µmol/m²

Chemical stability:

Kromasil derivatized phases are stable between pH 1.5 and 10 and as high as 12 under certain conditions.

Mechanical stability:

Allows repeated packing at up to 500 bar.

Packed density:

SIL: 0.47 g/ml

C4: 0.48 g/ml

C8: 0.50 g/ml

C18: 0.52 g/ml

PRODUCT CODES

For ordering please use our code system:

Kromasil 300-X-Y

— 300 indicates 300 Å pore size

— X indicates particle size: 5 up to 16 µm

— Y indicates phase: SIL, C4, C8 or C18

(for example Kromasil 300-5-C18)

DELIVERY

Kromasil is delivered in polyethylene bottles or in polyethylene bags packed in fibre drums.

Kromasil, patented by Eka Chemicals AB, is manufactured in multi-kilogram batches with high reproducibility.

The development, production and marketing of Kromasil are ISO 9001 certified.

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Australia & New Zealand contact info@winlab.com.au or call 61 7 3205 5233

Eka Chemicals AB, Separation Products, SE-445 80 Bohus, Sweden.

Tel. +46 31 58 70 00

Fax +46 31 58 77 27

NAFTA countries: Akzo Nobel / Eka Chemicals Inc., 281 Fields Lane, Brewster, NY 10509, U S A.

Tel. +1 845 276 8200

Fax +1 845 277 1406

China: Akzo Nobel / Eka Chemicals

Rm.1910 East Ocean Center, No.24A Jian Guo Men Wai Ave., Beijing 100004, China.

Tel. +86 10 6515 5738/39/40, ext.115 Fax +86 10 6515 5730 Cell +86 133 8116 7168

kromasil@eka.com

www.kromasil.com

