

Kromasil® 100 Å

SIL, C4, C8, C18, NH2, Phenyl

High performance spherical silica for analytical to process scale liquid chromatography. RP Kromasil 100 Å is manufactured using monofunctional silanes, and is fully end-capped.* This gives high reproducibility and chemical stability.

PRODUCT CHARACTERISTICS

Particle sizes:**

3.5 µm, 5 µm, 7 µm, 10 µm, 13 µm, 16 µm

Particle size distribution:

(Coulter Multisizer)

dp₉₀/dp₁₀: < 1.70 (10, 13, 16 µm)
< 1.60 (7 µm)
< 1.55 (5 µm)
< 1.45 (3.5 µm)

Spec surface area:

320 m²/g (multi-point BET)

Pore volume:

0.9 ml/g (N₂-adsorption)

Pore size:

110 Å (N₂-adsorption)

Pore size distribution:

80% ± 25 Å (N₂-adsorption)
97% of the BET-surface is accessible for toluene

Chemical purity:

Typical figures (AAS or ICP):

Na: < 10 ppm

Al: < 5 ppm

Fe: < 5 ppm

Coverage:

(elemental analysis)

C4: 8% C, 3.8 µmol/m²

C8: 12% C, 3.7 µmol/m²

C18: 20% C, 3.5 µmol/m²

NH2: 1.7% N, 4.5 µmol/m²

Phenyl: 14% 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 700 bar (10,000 psi)

Packed density:

SIL: 0.50 g/ml

C4: 0.57 g/ml

C8: 0.60 g/ml

C18: 0.66 g/ml

NH2: 0.53 g/ml

Phenyl: 0.59 g/ml

PRODUCT CODES

For ordering please use our code system:

Kromasil 100-X-Y

— 100 indicates 100 Å pore size

— X indicates particle size: 3.5 up to 16 µm

— Y indicates phase: SIL, C4, C8, C18, NH2 or Phenyl

(for example Kromasil 100-5-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.

*) Kromasil NH2 is derivatized using a trifunctional silane, and is not end-capped.

**) Kromasil Phenyl is available in 5 µm, 10 µm and 16 µm particle size.

***) Applies to derivatized phases except NH2.

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