

Kromasil 100 Å

SIL, C4, C8, C18, NH2 and Phenyl

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

Product Characteristics

Particle sizes:**

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

Particle size distribution:

(Coulter Multisizer)

dp [µm]	dp ₉₀ /dp ₁₀
10, 13, 16	< 1.70
7	< 1.60
5	< 1.55
3.5	< 1.45
2.5	< 1.40

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

Coverage:

(elemental analysis)

C4:	8% C,	3.8 µmol/m ²
C8:	12% C,	3.7 µmol/m ²
C18:	20% C,	3.5 µmol/m ²
NH2:	1.7% N,	4.5 µmol/m ²
Phenyl:	14% C,	3.7 µmol/m ²

Chemical purity:

Typical figures (AAS or ICP):

Na: < 10 ppm

Al: < 5 ppm

Fe: < 5 ppm

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

Delivery

Kromasil bulk is delivered in polyethylene bottles or in polyethylene bags packed in plastic drums.

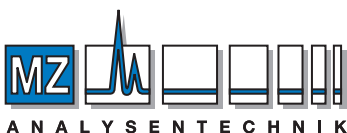
Kromasil, patented by Akzo Nobel Pulp and Performance Chemicals AB, is manufactured in multi-kilogram batches with high reproducibility.

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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