

# Kromasil 300 Å

## SIL, C4, C8 and C18

High performance spherical silica for analytical to process scale liquid chromatography. Functionalized 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 and 16 µm

#### Particle size distribution:

(Coulter Multisizer)

dp [µm]	dp <sub>90</sub> /dp <sub>10</sub>
10, 16	< 1.70
5	< 1.55

#### Spec surface area:

110 m<sup>2</sup>/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)

#### Coverage:

(elemental analysis)

C4:	2.9% C,	3.9 µmol/m <sup>2</sup>
C8:	4.7% C,	3.8 µmol/m <sup>2</sup>
C18:	8.7% C,	3.7 µmol/m <sup>2</sup>

#### 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 500 bar (72 500 psi)

#### Packed density:

SIL:	0.47 g/ml
C4:	0.48 g/ml
C8:	0.50 g/ml
C18:	0.52 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.