

# Kromasil 60 Å

## SIL, CN, Diol and HILIC-D

High performance spherical silica for analytical to process scale liquid chromatography, manufactured to give high reproducibility and chemical stability.

Functionalized Kromasil 60 Å is manufactured using mono- or trifunctional silanes.

### Product characteristics

#### Particle sizes

Phase	Particle size [μm]				
	5	7	10	13	16
SIL	•	•	•	•	•
CN	•		•		•
Diol	•		•		
HILIC-D	•		•		

#### Particle size distribution

(Coulter Multisizer)

dp [μm]	dv <sub>90</sub> /dv <sub>10</sub>
10,13,16	≤ 1.70
7	≤ 1.60
5	≤ 1.55

#### Spec surface area

540 m<sup>2</sup>/g (multi-point BET)

#### Pore volume

1.2 ml/g (N<sub>2</sub>-adsorption)

#### Pore size

80 Å (N<sub>2</sub>-adsorption)

#### Pore size distribution

80% ± 15 Å (N<sub>2</sub>-adsorption)

#### Coverage

(elemental analysis)

CN	12% C, 2.3% N	3.8 μmol/m <sup>2</sup>
Diol	10% C	3.5 μmol/m <sup>2</sup>
HILIC-D	10% C	3.5 μmol/m <sup>2</sup>

#### Chemical purity

Typical figures (AAS or ICP):

Na:	< 10 ppm
Al:	< 5 ppm
Fe:	< 5 ppm

#### Mechanical stability

Allows repeated packing at up to 700 bar (10 000 psi).

#### Packed density

SIL:	0.45 g/ml
CN:	0.52 g/ml
Diol:	0.53 g/ml
HILIC-D:	0.53 g/ml

#### Delivery

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

Kromasil, patented by Nouryon, is manufactured in multi-kilogram batches with high reproducibility.

The Kromasil production is ISO 9001 and ISO 14 001 certified.