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)
\[
\frac{dV_{90}}{dV_{10}}: \begin{cases} < 1.70 & (10, 16 \ \mu m) \\ < 1.55 & (5 \ \mu m) \end{cases}
\]

**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:**

<table>
<thead>
<tr>
<th>Phase</th>
<th>Packed density</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIL</td>
<td>0.47 g/ml</td>
</tr>
<tr>
<td>C4</td>
<td>0.48 g/ml</td>
</tr>
<tr>
<td>C8</td>
<td>0.50 g/ml</td>
</tr>
<tr>
<td>C18</td>
<td>0.52 g/ml</td>
</tr>
</tbody>
</table>

**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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