

Kromasil EternityXT

C8 and C18

High performance spherical patented organo/inorganic silica for analytical to process scale liquid chromatography with enhanced stability. Functionalized Kromasil EternityXT is fully end-capped with very high reproducibility and chemical stability.

Product characteristics

Particle sizes

| Phase | Particle size [μm] | | | |
|-------|--------------------|-----|---|----|
| | 1.8 | 2.5 | 5 | 10 |
| C8 | • | • | • | • |
| C18 | • | • | • | • |

Particle size distribution

(Coulter Multisizer)

| dp [μm] | dv ₉₀ /dv ₁₀ |
|---------|------------------------------------|
| 10 | ≤ 1.70 |
| 5 | ≤ 1.50 |
| 2.5 | ≤ 1.40 |
| 1.8 | ≤ 1.50 |

Spec surface area

310 m²/g (multi-point BET)

Pore volume

0.9 ml/g (N₂-adsorption)

Pore size

100 Å (N₂-adsorption)

Pore size distribution

80% ± 25 Å (N₂-adsorption)

97% of the BET-surface is accessible for toluene

Coverage

(elemental analysis)

| | | |
|-----|-------|-------------------------|
| C8 | 13% C | 4.1 μmol/m ² |
| C18 | 19% C | 3.3 μmol/m ² |

Chemical purity

Typical figures (AAS or ICP):

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

Chemical stability

Kromasil EternityXT derivatized phases are stable between pH 1 and 12 and can withstand 1 M NaOH CIP under certain conditions.

Mechanical stability

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

Packed density

| | |
|------|-----------|
| C8: | 0.67 g/ml |
| C18: | 0.75 g/ml |

Delivery

Kromasil EternityXT 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 management system for the development, production and marketing of Kromasil is ISO 9001 certified. The Kromasil production site is ISO 14 001 certified.