

# SPECIFICATION

## KADCOAT<sup>®</sup> S 100

("Methacrylic Acid Copolymer, Type "B" USP/NF)

### Description

White powders with a faint characteristic odour

### Solubility

1 g of KADCOAT<sup>®</sup> S 100 dissolves in 7 g Methanol, Ethanol, in Aqueous Isopropyl Alcohol and Acetone (containing approx. 3 % water), as well as in 1 N Sodium Hydroxide to give clear to slightly cloudy solutions.

KADCOAT<sup>®</sup> S 100 is practically insoluble in Ethyl Acetate, Methylene Chloride, Petroleum Ether and Water.

### Dry substance / Residue on evaporation

At least 95.0 % (1 g powder is dried in an oven for 6 hrs at 110 °C.)

### Loss on drying

Max. 5.0 %

### Assay

KADCOAT<sup>®</sup> S 100: 27.6 - 30.7 % Methacrylic Acid units on dry substance (DS)  
Acid value: 180 - 200 mg KOH per g DS

### Viscosity / Apparent viscosity

KADCOAT<sup>®</sup> S 100 : 50 - 200 mPa . s

The viscosity of the Test solution is determined by means of a Brookfield viscometer (spindle 1 / 30 rpm / 20 °C).

### Sulphated Ash / Residue on ignition

Max. 0.1 %

### Heavy Metals

Max. 20 ppm

### Monomers

Max. 1000 ppm

### Storage

Store at controlled room temperatures. Protect against moisture.  
(Any storage between 10°C and 40°C fulfils this requirement.)