

## Technical Datasheet

### Co-polymer SAT-PO310

INCI-name: Acrylates/C10-30 Acrylates Crosspolymer

Specification		
<b>Appearance*</b>		white, fluffy powder
<b>Wetting time</b> (3% in water at 25°C)	minutes	<25
<b>Viscosity*</b> (20 rpm /25°C, neutralized solution)	mPas	1%: 47000 – 77000 1% + 1%NaCl: >4000
<b>Solution clarity*</b> (transmission / 420nm, neutralized in water)	%	1% > 85
<b>Loss on drying**</b>	%	<2,0
<b>Heavy metals***</b>	mg/kg	As <2 Pb+As+Hg+Sb <10

\*tested on each lot, \*\*tested periodical, \*\*\* type inspection

#### Description:

Satcotek Co-polymer SAT-PO310, is a hydrophobically modified, crosslinked acrylate copolymer. It works as a low dosage, highly efficient thickener and suspending agent. It shows excellent electrolyte tolerance and serves unique sensory benefits in cosmetic formulas. Its low dispersion viscosity, before neutralization, makes it easy to disperse and process. Neutralized Co-polymer SAT-PO310 is a thickener with excellent performance for clear gels, including hydroalcoholic gels, creams and lotions, body wash and shampoos. Co-polymer SAT-PO310 is compatible with all kinds of surfactants.

Co-polymer SAT-PO310 forms gels with very good viscosity stability at temperature changes. Please avoid intensive shearing after neutralization, viscosity could decrease. As well an addition of electrolyte or long lasting UV irradiation can reduce the viscosity.

#### Formulation guideline:

Dosage 0,2 – 1,5%

Add Co-polymer SAT-PO310 slowly, with fast stirring (800 – 1200rpm), o the medium. Usage of a coarse sieve, to sift the Carbomer in, is helpful to avoid lumping.

In cold process emulsification, Co-polymer SAT-PO310 is the best-dispersed first in the oil phase. Add the oil phase to the water phase containing the neutralizing agent.