

Technical Datasheet

Carbomer SAT-250

INCI-name: Carbomer

Specification		
Appearance*		white, fluffy powder
Viscosity* (20 rpm /25°C, neutralized solution) mPas		0,2%: 13000 – 30000 0,5%: 40000 - 60000
Solution clarity* (transmission / 420nm, neutralized in water)	%	0,2% > 85 0,5% > 85
Residual solvent (Methylene Chloride) *	ppm	<2000
Loss on drying**	%	<2,0
Bulk density**	g/100ml	19,5 – 23,5
Heavy metals***	mg/kg	As <2 Pb+As+Hg+Sb <10

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

Application:

Satcotek Carbomer SAT-250, a crosslinked polyacrylate, is a high efficient, low dosage thickener and suspending agent. Neutralized Carbomer SAT-250 is a short flow (non drip) thickener with excellent performance for clear gels, including hydroalcoholic gels, creams and lotions, shampoos and body wash.

Carbomer SAT-250 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%

Add Carbomer SAT-250 slowly, with fast stirring (800 – 1200rpm) to the medium. Usage of a coarse sieve, to sift the Carbomer in, is helpful to avoid lumping.

In cold process emulsification, Carbomer SAT-250 is the best disperse first in the oil phase. Add the oil phase to the water phase containing the neutralizing agent.