

Technical Datasheet

Carbomer SAT-280

INCI-name: Carbomer

Cas. No. 9003-01-4

EINECS:618-347-7

Specification	Standar
Appearance*	white, fluffy powder
Viscosity* (20 rpm /25°C, neutralized solution) mPas	0,2%: 15.000 – 30.000 0,5%: 40.000 – 60.000
Solution clarity* % (transmission / 420nm, neutralized in water)	0,2% > 85 0,5% > 85
Residual acrylic acid* %	<0,10
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-280, a crosslinked polyacrylate, is a highly efficient thickener and suspending agent. Neutralized Carbomer SAT-280 is an outstanding long flow thickener with excellent performance for clear gels, creams and lotions. Carbomer SAT-280 has a moderate electrolyte tolerance.

Carbomer SAT-280 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 0,1 – 1,5%

Add Carbomer SAT-280 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-280 is the best disperse first in the oil phase. Add the oil phase to the water phase containing the neutralizing agent.