

AEROSIL® R 816

SUPPORTS THICKENING ALCOHOLIC LIQUIDS AND GELS



Since the outbreak of COVID-19, the demand of alcohol based disinfectant gels has exploded, causing a shortage of polyacrylic acid, or Carbomer.

Many disinfectant gels are based on Carbomer as viscosity builder. The gels are shear thinning, which provides easy pouring and proper handling when applied on the skin. With the shortage of Carbomer, producers are seeking alternatives. By using **AEROSIL® R 816**, the Carbomer concentration of an app. 60% alcohol containing disinfectant gel can significantly be reduced (50%) while maintaining the viscosity of the gel:

INGREDIENTS	%
Water	10.00
AEROSIL® R 816	0.50
Ethanol 75%	78.35
Carbomer (2% in water) INCI: Acrylates/C10-30 Alkyl Acrylate Crosspolymer	10.00
Triethanol amin (99%)	q.s.
Glycerin	1.00
Total	100.00
Brookfield viscosity*	13800 mPas

*Brookfield DV-E Viscosimeter,
Spindle set: RV, 4
Time: 1 minute
Speed: 10 rpm



- Mix **AEROSIL® R 816** with water
- Add Carbomer and stir until homogeneous
- Add Ethanol 75%
- Neutralize with Triethanol amin (99%) and stir until uniform; pH 6,2–6,9
- Add glycerin

Evonik has a wide variety of hydrophilic and hydrophobic **AEROSIL®** products that help to increase viscosity of many different liquids.

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