

Rheology Control for Personal Care Products

Xanthan Gum

- Natural and organic (ECOCERT and COSMOS approved)
- Premium thickener and stabilizer
- Pleasant skin feel
- Excellent quality
- Highest purity



Jungbunzlauer

Xanthan Gum

Premium stabilizer and thickener

Xanthan gum is a naturally occurring polysaccharide produced by fermentation using a pure culture of *Xanthomonas campestris*. It functions as an exceptional rheology control agent in water-based systems and can be used in a variety of cosmetic and personal care applications, such as lotions, creams, shower gels, shampoos, shaving foams, face masks and make-up.

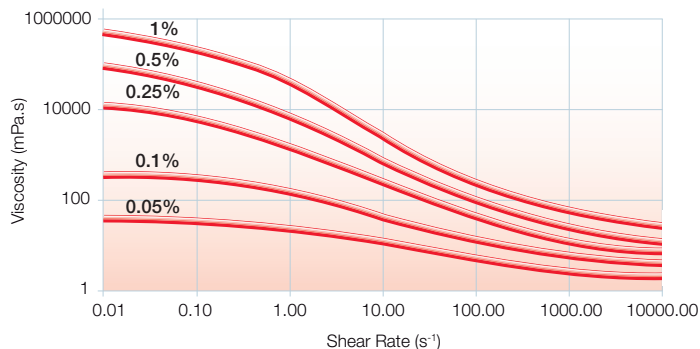


Advantages in cosmetic and personal care applications

Xanthan gum solutions are highly pseudoplastic, their viscosity is reduced instantly when high shear rates are applied. This property allows easy pumping and spraying. In contrast, xanthan gum solutions at lower shear rates show a high viscosity and therefore trigger its excellent ability to stabilize emulsions, suspensions and foams.

Additional benefits of Jungbunzlauer's xanthan gum:

- Guarantees high solution viscosity even at low concentrations
- Stabilizes the oil phase in oil-in-water emulsions used in lotions
- Suspends pigments and abrasives and other solid particles
- Provides excellent foam stability for shower gels, shampoos and shaving foams
- Facilitates mixing, pumping, filling and extrusion from tubes
- Maintains viscosity at varying temperatures
- Keeps an excellent stability over a wide pH range
- Compatible with humectants, surfactants and high salt-concentrations
- Soluble in both cold and hot water
- Tolerates alcohol and other organic solvents
- Resistant to enzymes



Shear thinning rheology of xanthan gum

Viscosity versus shear rate at different xanthan gum concentrations

Jungbunzlauer's xanthan gum personal care grades

Grades	Characteristics	Features
XG FNPC	normal granulation (80 mesh)	Free of cellulase, free of amylase, very low microbiology, highest purity
XG FNCS-PC	transparent, normal granulation (80 mesh)	
XG FNCSP-PC	reduced pseudoplasticity, transparent, normal granulation (80 mesh)	
XG FFPC	fine granulation (200 mesh)	
XG FFCS-PC	transparent, fine granulation (200 mesh)	
XG FFCSP-PC	reduced pseudoplasticity, transparent, fine granulation (200 mesh)	
XG FEDCS-PC	easily dispersible, transparent, agglomerated	

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to ingredients®