



Jungbunzlauer

From nature to ingredients®

Xanthan Gum

Xanthan gum is a naturally occurring polysaccharide which functions as an exceptional rheology control agent in water-based systems. It can be used in a variety of cosmetic and personal care applications, such as lotions, creams, shower gels, shampoos, hair gel, shaving foams, face masks and make-up. It also functions as biodegradable alternative to synthetic rheology control agents.

Presentation

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 stabilise emulsions, suspensions and foams. Xanthan gum is available in various grades, providing e.g. outstanding clarity, reduced pseudoplasticity or different granulations. All xanthan gum grades provide resistance to enzymes, keep an excellent stability over a wide pH range, show broad compatibility with humectants, surfactants or high salt concentrations and are free from microplastics.

Production

Xanthan gum is produced by fermentation of carbohydrates as e.g. glucose syrup from corn. The product undergoes several purification steps and is finally obtained in its highly pure form.

Characteristics

Xanthan gum is a white or yellowish-white, free flowing powder, having a typical odour and taste. It is soluble in both cold and hot water, and practically insoluble in organic solvents. Solutions in water give highly viscous solutions with shear thinning properties.

INCI name

Xanthan Gum

INCI functions

Stabilising, viscosity controlling, binding, gel forming

Applications

Colour cosmetics, deodorants, hair care, oral care, skin care, soap and bath products




Applications and typical dosage

Application	Typical dosage	Application	Typical dosage
■ Creams	0.4 - 0.8%	■ Toothpaste	0.3 - 0.8%
■ Lotions	0.4 - 1.0%	■ Facial sheet mask	1.0%
■ Shampoo, shower gel	0.7 - 1.5%	■ Make up	0.6 - 1.0%
■ Hair gel	5.0%	■ Skin gel	2.0 - 3.0%






Related documents

Formulation examples

-  Basic skin gel
-  Sulphate free shampoo with Xanthan Gum
-  Hair gel with Xanthan Gum

Articles

-  Natural hair styling gel with Xanthan Gum
-  Xanthan Gum as natural thickener in face masks
-  Face gel with Xanthan Gum as a natural thickener