

Thickening of natural, sulphate-free shampoo

with Xanthan Gum

Use Jungbunzlauer Xanthan Gum FNCSP-PC to keep up with the latest consumer trends in your shampoo formulations.

Benefits

Formulate your shampoo

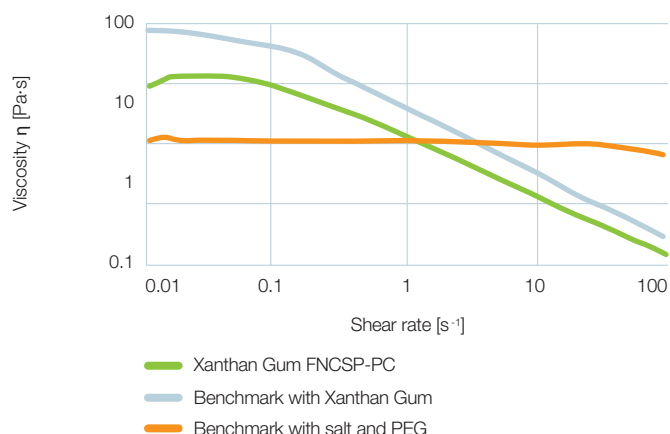
- Sulphate-free
- PEG-free & Cocamide DEA-free
- Free from synthetic thickener
- With mild surfactants and no added salt
- Clear
- Vegan

Excellent stability with a variety of natural surfactants

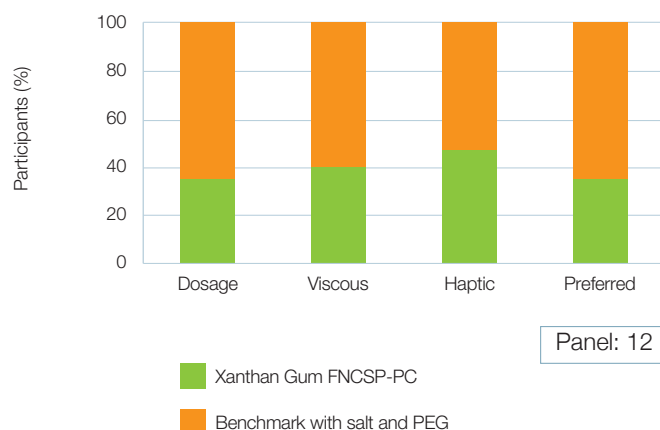
- Glycolipids
- Glucosides
- Glutamates
- Glucamides
- Betaines

Proof of benefits

Results of the rheology evaluation



Results of the sensory evaluation



Panel: 12

Standard thickeners usually show Newtonian flow properties, whereas the use of xanthan gum results in shear thinning. Using a xanthan gum grade with reduced pseudoplasticity – xanthan gum FNCSP-PC – the shear thinning is less pronounced. In consequence, flow properties can be optimised to resemble a benchmark with a traditional thickening system consisting of salt and PEG in a closer way.

Thickening with xanthan gum FNCSP-PC generates a similarly pleasant user experience as a benchmark thickened with salt and PEG.

Jungbunzlauer Ingredients

Name	Xanthan Gum FNCSP-PC
INCI	Xanthan Gum
Function	Thickener
ISO 16128 ¹⁾	NOI = 1
COSMOS	Yes
Biodegradability ²⁾	Readily biodegradable
CAS number	11138-66-2
EC number	234-394-2
REACH number	Exempted from registration

¹⁾ Natural origin index ²⁾ Method: OECD test guideline 301

Formulation

Phase	Ingredients	INCI	Supplier	Quantity
A	Water	Aqua		Qs to 100
	Xanthan Gum FNCSP-PC	Xanthan Gum	Jungbunzlauer	0.70 %
	Sodium Benzoate	Sodium Benzoate		0.50 %
	Potassium Sorbate	Potassium Sorbate		0.10 %
B	Hostapon® CGN	Sodium Cocoyl Glutamate	Clariant	21.80 %
	Tego Betaine® F 50	Cocamidopropyl Betaine	Evonik Industries	6.30 %
	Plantacare® 818 UP	Coco Glucoside	BASF	5.80 %
	Perfume	Perfume		Qs
C	Citric Acid	Citric Acid	Jungbunzlauer	Qs

Directions

- 1 Dissolve phase A into water, a propeller stirrer is suggested
- 2 Make sure everything is completely dissolved
- 3 Add phase B and mix at RT until you have a clear solution
- 4 Set pH value with phase C if necessary

Technical Data

Appearance: transparent, liquid
pH Value: 5.2 – 5.7

Stability

Stable for 3 months at RT

The information contained herein has been compiled carefully to the best of our knowledge. We do not accept any responsibility or liability for the information given in respect to the described product. Our product has to be applied under full and own responsibility of the user, especially in respect to any patent rights of others and any law or government regulation.

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