

Texique® Bio-based personal care additives

A range of bio-based inverse emulsions and naturally derived cationic polysaccharides for the personal care market.



About Texique®

The Texique[®] range of products; HE10, HE20, PQ.37, CS-P and CS-32 includes high performing rheology modifiers, emulsifiers and conditioning agents for the personal care market, all manufactured to have a high natural index, none of which are animal-based.

Through conscious innovation, our Texique® products are developed with both sustainability and the environment in mind, making a positive difference to every life we touch.

Key features:

- Cold processable
- Good emulsification properties
- Excellent pH stability
- Pre-neutralised and ready to use

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INCI names
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No preservative

- No animal derived raw materials
- Plant based and renewable oil and surfactant
- Vegan friendly

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Texique[®] anionic inverse emulsions

Key characteristics of Texique[®] HE10 and HE20 inverse emulsions

Multifunctional, providing thickening, stabilising, emulsifying and texturising properties.



Product	NI*	Thickening	pH Stability	Emulsification	Electrolyte resistance	Compliance	Key feature
HE10	62%	Good	5.50 - 11	Up to 40%	Excellent	Global	Emulsifier
HE20	61%	Excellent	4.00 - 11	Up to 30%	Good	Global - Except China	Thickener

*Natural Index - ISO16128

How it works

Texique® is the ideal bio-based additive to create quality personal care products.



Texique[®] + water (inverse emulsion)

High performance and quality

Emulsification

When used with 3% Texique® products in water with 30% emollients or humectant. Personal care products can be formulated into sprays or creams.





Thickening

Our patented technology ensures that Texique® HE products deliver an excellent thickening range in water.



pH resistance

The pH effect on thickening when Texique® is added to water at 3%.



Electrolyte resistance

Electrolyte resistance on thickening for the Texique® HE range in water at 7%.



Example formulation using anionic inverse emulsions:

61.2% de-ionised water

• 3% Texique[®] HE10

- 0.8% preservative
- 35% macadamia oil

Method:

- Weigh water and preservative into a beaker, mix well
- Add Texique[®] HE10 to the stirring mixture at 800 rpm, mix for 10 minutes
- Add macadamia oil and stir for 20 minutes at 1000 rpm

Texique[®] cationic inverse emulsions

Introducing NEW Texique® PQ37 cationic inverse emulsion for the personal care market.



Example intensive hair masque formulation

Phase	INCI Ingredients	% w/w
А	Water	Up to 100%
	Disodium EDTA	0.05
	Sodium Benzoate	0.30
	Citric acid	0.12
В	Guar Hydroxypropyltrimonium chloride	0.30
С	Hydroxyethylcellulose	0.20
D	Aqua (and) Cetrimonium chloride	2.00
Е	Behentrimonium chloride	0.50
F	Texique® PQ37	1.00
G	Cetearyl Alcohol	3.00
	Glyceryl Stearate (and) PEG-100 Stearate	2.50
	Cetyl Esters	0.50
	Jojoba Oil	1.00
	Coconut Oil	1.00
н	Phenoxyethanol	0.60
I	Aqua (and) Hydrolyzed Pea Protein (and) Hydrolyzed Vegetable Protein	1.00
	Fragrance	ର୍ଯ
J	Citric acid solution	ଭ୍ୟ

Method:

- Weigh out Phase A and mix until completely dissolved.
- With fast mixing add Phase B slowly until completely dispersed.
- Whilst homogenising add Phase C and mix until dispersed and uniform.
- Add Phase D and mix until uniform. Heat to 65°C.
- Add Phase E slowly with mixing. Mix until completely dispersed.
- Add Phase F and mix. Start heating to 75°C with mixing.
- Weigh out Phase G and heat to 75°C with mixing. At 75°C add Phase H and mix until uniform.
- Add Oil phase to Water phase whilst homogenising. Homogenise until smooth and uniform.
- Cool to below 40°C with slow mixing.
- At below 40°C add Phase I and mix until uniform.
- Adjust to pH 3.50 4.50 with Citric acid solution (Phase J).

¹Natural origin index = 0.50 (50% naturally derived ingredients) ISO16128.

Texique[®] naturally derived cationic polysaccharides

Key characteristics of Texique[®] CS-P and CS-32 naturally derived cationic polysaccharides

Improves the spreading characteristics of the final product, enabling easier application, dispensing and spreading. Available in powder or liquid form.



Product	NI*	Physical form	Spreading characteristics	Use in skin care	Use in hair care	Key feature
CS-P	75%	Powder	Improves final product spreading characteristics	<i>s</i>	5	Improved hair shine and good for use in water conscious formulations
CS-32	93%	Liquid	Improves final product spreading characteristics	\checkmark	\checkmark	Easy to use and excellent for fine hair types

*Natural Index - ISO16128





Conditioning benefit

Texique[®] CS-P was incorporated into a simple hair conditioner formulation at 0.30% w/w (Hair conditioner A) and assessed for conditioning benefit on both wet and dry comb attributes using a TA.XT plus texture analyser.

The standard conditioner formulation contains a commercially available, competitor equivalent material, at the same active level.

Hair conditioner A was shown to have a combing effect on wet hair when compared with the negative control and is comparable to the standard conditioner. Hair conditioner A also shows a combing effect on dry hair which is comparable to the standard conditioner.

Hair shine

Texique[®] CS-P was incorporated into a simple hair conditioner formulation at 0.30% w/w (Hair conditioner A) and assessed for hair shine using a Glossymeter GL200. Results were compared with a standard conditioner formulation containing a commercially available, competitor equivalent material, at the same active level and a negative control.

Hair conditioner A shows a significant increase in hair shine when compared to the negative control and slightly better results than the standard conditioner formulation.



Combing Forces, Mean Values, Dry Hair



Hair Shine % Difference Values (After Product Application t2)



Combining Forces, Mean values Wet Hair

68%		
	18.91%	
itioner A	Standard conditioner	Neg <mark>ative con</mark> trol
		<mark>-22.23%</mark>



INCI names:

HE10

Sodium acrylate/sodium acryloyldimethyltaurate copolymer, C13-15 alkane, coco-glucoside

HE20

AMPS/HEMA cross polymer, C13-15 alkane, coco-glucoside

PQ37

Polyquaternium-37, C13-15 Alkane, PEG-7 Oleate

CS-32

Aqua, Starch Hydroxypropyltrimonium Chloride, Phenoxyethanol, Sodium Benzoate

CS-P

Starch Hydroxypropyltrimonium Chloride

Distributor details:



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