



Worlée**Suspens Eco**

Take advantage of what nature offers to improve the stabilization of your formulation and achieve incredible performance with our new bio-based suspending agent. Choose WorléeSuspens Eco for a more sustainable, high-quality cosmetic product that your customers will love.

About WorléeSuspens Eco

WorléeSuspens Eco is the perfect solution for those looking to create sustainable, high-quality natural cosmetic products. Made from bacterial cellulose obtained through a non-GMO fermentation process, this bio-based suspending agent enhances sensory properties, resulting in a transparent, uniform formulation.

WorléeSuspens Eco creates a three-dimensional network of cellulose fibers, that increases the yield stress without affecting the viscosity. This ready-to-use product is easily incorporated into any formulation with moderate stirring.



99.4 % Natural Origin Content (NOC)



Vegan



Not in scope of Commission regulation (EU) 2023/2055 for microplastics



Non-GMO



Palmoil free



Cruelty free



COSMOS-Ecocert validated

Your benefits at a glance

Benefits of WorléeSuspens Eco

Synergistic viscosity effect with Sodium Chloride

While using sodium chloride WorléeSuspens Eco has an positive effect on the viscosity and sodium chloride content can be slightly reduced.

Transparency

Comparable to synthetic suspending agents

Flow Properties

Improves the flow properties & sensory of Xanthan Gum

Stabilization of Insoluble Ingredients

Scrubs, WorléeSoft Beads, Pigments, Opacifier, Pearlizer, Perfume oil in aqueous medium

Pre-Activated

Ready to use and pre-activated

pH value

Tolerant to pH value, salt and temperature

Sensory Advantage

Advantageous sensory properties, less slimy

Application Possibilities



Cleansing



Color



Skin



WorléeSuspens Eco

Bio-based Suspending agent

Product	INCI	Appearance	pH value	Viscosity [mPas]	ISO16128 Natural Origin Content	
					without water [%]	with water [%]
WorléeSuspens Eco	Aqua, Glycerin, Cellulose, Sodium Benzoate, Cellulose Gum, Citric Acid	White to yellowish viscous liquid	3.0 - 5.5	≤ 5000	90.2	99.4

How to process WorléeSuspens Eco

- Disperse in water first
- Usage Level: approx. 2.0 – 10.0 wt%* (If used in Color Cosmetic, a higher concentration may be necessary - depending on the formulation)
- No high shear required due to the pre-activated fibrillar structure
- Avoid excessive air incorporation during processing
- Compatible across a pH range of 4–12
- Tolerates short-term exposure to approx. 80 °C in formulation process
- The usage level to achieve perfect stabilizing properties depends on:
 - Surfactant system
 - Surfactant concentration
 - Particle size
- For transparent Leave-on formulations:
 - A small amount of surfactants necessary (max. 2% active surfactant)

*A usage concentration of max. 5% is recommended for salt-thickened and surfactant-containing (anionic) systems.

The values that guide our actions

We are committed to forward-looking and prudent environmental protection and to preventive and comprehensive occupational health and safety as a corporate goal.

We are convinced, that the natural goods of water, air, and soil must be treated carefully as a part of our responsible business practices. In this way, the ecosystem in which we live can be preserved as the basis of life for future generations as well. This particularly applies to the economical and efficient use of energy and natural resources.

We stand by our responsibility to provide safe and secure production, storage, and transport. We ensure that our products are handled conscientiously along the entire value-added chain.



Let's work together

Do you have ideas for product developments? Feel free to contact us.
We would be pleased about a cooperation or a joint project with you.

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