

CUSTOMIZED
SOLUTIONS

Schill+Seilacher

struktol®



PERFECT THICKENING SOLUTION

RHEO2GREEN SERIES

ONE OF THE CHALLENGES FOR FORMULATING GLUTAMATES IS THE FORMATION OF A STABLE MICELLAR THICKENING SYSTEM. WITH THE RHEO2GREEN-SERIES, WE OFFER READY-TO-USE SURFACTANT CONCENTRATES, BUILDING UP A REMARKABLE VISCOSITY WITH OUTSTANDING SKIN FEEL AND EXCELLENT RHEOLOGICAL PROPERTIES.

After dilution of Rheo2Green products with water (approx. 1:3 to 1:5) and reducing the pH in a cold process, the viscosity will increase immediately, leading to desirable flow and foam behavior of cleansing formulations. This is an inventive way to thicken in absence of polymers.

- **Rich fine-pored foam**
- **Outstanding micellar self-thickening at pH 4.8 – 5.4**
- **Cold processable**
- **Mildness to skin**
- **Good cleansing ability**
- **Free of sulfates, solvents, fragrances**

Product	INCI	Dry Matter (%)	PO / PKO*	pH	Certification
Rheo2Green1	Aqua, Lauryl Glucoside, Disodium Cocoyl Glutamate	42	0 / 16	9	COSMOS
Rheo2Green1 MB	Aqua, Lauryl Glucoside, Disodium Cocoyl Glutamate	42	0 / 7	9	COSMOS, NATRUE, RSPO - MB**
Rheo2Green2	Aqua, Lauryl Glucoside, Disodium Cocoyl Glutamate, Sodium Benzoate, Potassium Sorbate	42	0 / 16	9	COSMOS
Rheo2Green2 MB	Aqua, Lauryl Glucoside, Disodium Cocoyl Glutamate, Sodium Benzoate, Potassium Sorbate	42	0 / 7	9	COSMOS, NATRUE, RSPO - MB**
Rheo2Green3	Aqua, Sodium Lauroamphoacetate, Disodium Cocoyl Glutamate	42	0 / 16	9.5	COSMOS in progress
Rheo2Green3 MB	Aqua, Sodium Lauroamphoacetate, Disodium Cocoyl Glutamate	42	0 / 10	9.5	COSMOS in progress, RSPO - MB**

* PO Palm oil / PKO Palm kernel oil (%)

** RSPO Certificate Number CU-RSPO SCC-846664

SKIN CARE

- Shower gels
- Facial cleansing gels
- Micellar water
- Liquid hand soaps
- Medical soaps
- Baby bubble bath
- Wet wipes
- Shaving gels
- Natural / green / certified cosmetics
- Sulfate-free rinse-off products

HAIR CARE

- Mild baby shampoos
- Shampoos, conditioning shampoos

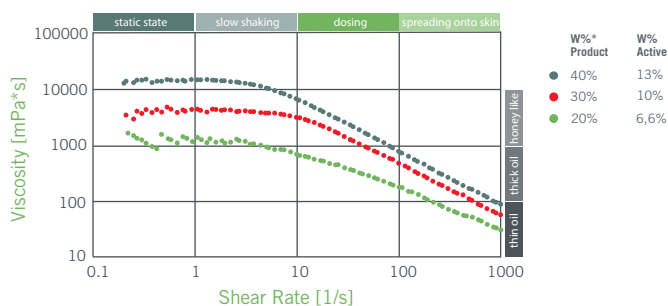
PET CARE

- Dog shampoos
- Mild cleaning products for pets

HOME CARE

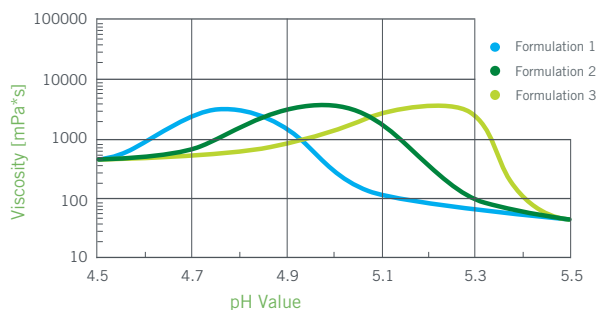
- Laundry detergents
- Mild surface cleaning
- Manual dish wash

NATURAL PERCEPTION OF VISCOSITY



Rheological properties are based on pure micellar thickening, which is responsible for the desired viscoelasticity. Such flow behavior provides perfect natural sensation that is important for consumer acceptance: honey-like at slow shaking, thick oil when dosing, thin oil during spreading onto skin.

THICKENING AT THE RIGHT pH



The optimal pH for the maximum of viscosity can slightly move, depending on the formulation composition. Some ingredients can have an influence on the efficacy of thickening. Moreover, viscosity can be regulated through the variation of Rheo2Green concentration.

BUBBLE BATH

Part	INCI / Ingredient	% W/W
	Aqua	60
	RHE02GREEN3 MB Sodium Lauroamphoacetate, Disodium Cocoyl Glutamate, 42 %	30
A	PERLASTAN SL MB Sodium Lauroyl Glutamate, 25 %	5
	Aloe Barbadensis Gel	2
	Chamomilla Recutita Extract	3
B	Lactic Acid	qs to pH
C	Preservatives, Fragrances etc.	qs

PROPERTY

- Appearance: light yellowish, clear gel
- pH-value: 5.0
- Viscosity (Brookfield, Sp. 5.5 rpm, RT): 2500 - 2800 mPa·s

MANUFACTURING PROCEDURE

- Mix Part **A** until formulation is homogeneous
- Adjust pH-value with Part **B**
- Add Part **C**

ALL GREEN THICKENED SHAMPOO

Part	INCI / Ingredient	% W/W
	Aqua	49.5
A	RHE02GREEN1 MB Lauryl Glucoside, Disodium Cocoyl Glutamate, 42 %	45.00*
	Panthenol, 75 %	2.50
B	Chamomilla Recutita Extract	2.50
	Hydrolyzed Wheat Protein	0.5
C	Lactic Acid	qs to pH
D	Preservatives, Fragrances etc.	qs

Preservative might be based on Potassium Sorbate and Sodium Benzoate

PROPERTY

- Appearance: light yellowish, clear gel
- pH-value: 4.8 - 5.0
- Viscosity
 - a.)* 45.00 % Part A: 4200 - 4500 mPa·s
 - b.)* 37.50 % Part A: 1650 - 2900 mPa·s (Brookfield, Sp. 5.5 rpm, RT)

MANUFACTURING PROCEDURE

- Mix Part **A**
- Add Part **B** to Part **A** in listed order and mix until formulation appears homogeneous
- Adjust pH-value with Part **C**
- Add Part **D**



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