

CUSTOMIZED  
SOLUTIONS

**Schill+Seilacher**  
**struktol®**



**COSMETICS, HI&I  
SPECIAL CHEMICALS**

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## COSMETICS, HI&I, SPECIAL CHEMICALS

The Schill+Seilacher cosmetic raw materials, HI&I, special chemicals business unit is your partner for amino acid based surfactants and surfactant concentrates, typically used for conventional or organic cosmetics, for home care, HI&I, from technical application (lubricants, metal working) up to pet care.

We also offer odour absorbers for various applications, which are convenient for our daily life, as well as smart emulsifiers for skin care products.

We see ourselves not only as a leading producer of these innovative raw materials but also as a consultant for different applications.

# WORLD WIDE

**SCHILL+SEILACHER IS THE WORLD'S MARKET-LEADER  
IN MANUFACTURING AND DEVELOPING SPECIALITY  
CHEMICALS FOR PROCESS OPTIMIZATION.**

# 187

**AS A GLOBAL PLAYER AND EXPERIENCED TECHNOLOGICAL PARTNER WITH A LONG ESTABLISHED TRADITION, WE ACCOMPANY OUR PARTNERS TO A SUSTAINABLE FUTURE. WE ARE PASSIONATE ABOUT CHEMISTRY AND THIS PASSION IS REFLECTED IN OUR PRODUCTS. OUR WORLD CLASS APPLICATION TECHNOLOGY LABORATORIES ENABLE US TO SIMULATE, ANALYSE AND PERFECT CUSTOMER-SPECIFIC REQUIREMENTS. WITH OUR FULL COMMITMENT AND INNOVATIVE SOLUTIONS, WE MAKE A SIGNIFICANT CONTRIBUTION TO GENERATING ADDED VALUE AND ENSURING ECONOMIC SUCCESS. WE ARE PROUD TO PROVIDE AN EXTENSIVE PORTFOLIO WHICH IS GLOBALLY PRESENT IN ALL AREAS OF LIFE. SCHILL+SEILACHER ALWAYS PROVIDES YOU WITH »GOOD CHEMISTRY«.**

**Customized Solutions –  
the perfect response to special requirements**

Our partners' expectations are always motivation and recognition for us. We are driven to reward the trust our customers have placed in us by investing in technologies of tomorrow and the qualification of our employees. Our main focus lies on innovating our research and development activities. Personal conviction and our customers' best interests lead us to act in a responsible manner to safeguard the future and our environment by saving water, energy and transportation costs. We do this for the sake of the environment and to respect the financial resources of our customers.

**Global leadership through healthy growth**

Our success story started in 1877, when Karl Schill and Christoph Seilacher in Heilbronn, Germany, created chemical additives in order to support a more effective leather processing. In 1943 the production was relocated to Böblingen near Stuttgart. As early as 1925, an additional production site for the manufacture of rubber additives opened in Hamburg. Adding to this, in 1979 the Struktol Company of America was founded in Ohio and in 1997 the Schill+Seilacher Chemie GmbH was established in Pirna, Germany. Since 2019, the Schill+Seilacher group is foundation-owned. With our development and production sites as well as to our worldwide distribution network, we are closer than ever to our customers.


For further information on sustainability, customized solutions, quality standards and other subjects please visit our website or contact us directly. We will be pleased to assist you!



**GREEN CHEMISTRY FOR  
A SUSTAINABLE FUTURE**

**ECOLOGICAL.  
ECONOMICAL.  
SOCIAL.**

**ENVIRONMENTAL SOLUTIONS PLAY A MAJOR ROLE AT  
SCHILL+SEILACHER. WE HAVE LONG RECOGNIZED THE  
IMPACT OF RENEWABLE RESOURCES AND ENERGY  
CONSERVATION IN ALL ASPECTS OF OUR BUSINESS.**



To us, sustainable action consists not only of environmental protection, but also the combination of economic, environmental and social responsibility. In our supply chains, we ensure compliance with social criteria and as the key to success, we provide industry leading trainee schemes and further in-service courses to our employees. Furthermore, we support the UN Global Compact, the global pact between companies and the United Nations, to help shape globalisation in a more social and environmental way.

## **ACTING WITH RESPONSIBILITY AND CERTIFICATIONS**

As the world's market-leader, our duty and passion is to create customized additives. Our own high demand for quality and our DIN EN ISO 9001-certified quality management system ensure the unique product performance of our additives. Respecting environmental protection e.g. through waste avoidance and reducing resources and energy, our production sites are certified according to DIN EN ISO 14001 as well as energy efficiency according to DIN EN ISO 50001. Furthermore, our portfolio includes FDA-compliant products conforming to the strict requirements of the American Food and Drug Administration (FDA). Recognised ISO and RSPO certifications are further credentials of our responsibility toward people, quality and the environment.

## SURFACTANTS BASED ON L-GLUTAMIC AMINO ACID

Product Name	INCI	Dry Matter (%)	PO/PKO*	Remarks
Perlastan SC 25 NKW	Aqua, Disodium Cocoyl Glutamate, Sodium Cocoyl Glutamate	25	0/17.5	COSMOS, NATRUE
Perlastan SC 25 NKW MB	Aqua, Disodium Cocoyl Glutamate, Sodium Cocoyl Glutamate	25	0/17.5	COSMOS, NATRUE RSPO - MB**
Perlastan SCG 35 MS	Aqua, Disodium Cocoyl Glutamate, Isopropyl Alcohol, Sodium Chloride	35	0/17	
Perlastan SCG 35 MS MB	Aqua, Disodium Cocoyl Glutamate, Isopropyl Alcohol, Sodium Chloride	35	0/17	RSPO - MB**
Perlastan SCG 35 NT MB	Aqua, Disodium Cocoyl Glutamate, Propylene Glycol, Sodium Chloride	35	0/15	COSMOS, NATRUE RSPO - MB**
Perlastan SCG 38 CE	Aqua, Disodium Cocoyl Glutamate, Sodium Chloride	38	0/15.5	COSMOS, NATRUE
Perlastan SCG 38 PF	Aqua, Disodium Cocoyl Glutamate, Sodium Chloride	38	0/0	COSMOS, NATRUE
Perlastan SCG 38 DK	Aqua, Disodium Cocoyl Glutamate, Sodium Cocoyl Glutamate	38	0/15.5	COSMOS, NATRUE
Perlastan SCG 38 DKPF	Aqua, Disodium Cocoyl Glutamate, Sodium Cocoyl Glutamate	38	0/0	COSMOS, NATRUE

\* PO Palm oil / PKO Palm kernel oil [%]

\*\* RSPO Certificate Number CU-RSPO SCC-846664



## SURFACTANTS BASED ON L-GLUTAMIC AMINO ACID

Product Name	INCI	Dry Matter (%)	PO/PKO*	Remarks
Perlastan SCG 50 HC	Aqua, Disodium Cocoyl Glutamate, Isopropyl Alcohol, Sodium Chloride	50	0/21	
Perlastan SCG 50 HC MB	Aqua, Disodium Cocoyl Glutamate, Isopropyl Alcohol, Sodium Chloride	50	0/20	RSPO - MB**
Perlastan SCG 50 NT MB	Aqua, Disodium Cocoyl Glutamate, Propylene Glycol, Sodium Chloride	50	0/20	COSMOS, NATRUE RSPO - MB**
Perlastan SL	Aqua, Sodium Lauroyl Glutamate	25	0/16.5	COSMOS, NATRUE
Perlastan SL MB	Aqua, Sodium Lauroyl Glutamate	25	0/16.5	COSMOS, NATRUE RSPO - MB** in progress
Perlastan SLG 38	Aqua, Sodium Lauroyl Glutamate, Propylene Glycol, Sodium Chloride	38	0/16	
Perlastan SLG 38 MB	Aqua, Sodium Lauroyl Glutamate, Propylene Glycol, Sodium Chloride	38	0/16	RSPO - MB**

\* PO Palm oil / PKO Palm kernel oil [%]

\*\* RSPO Certificate Number CU-RSPO SCC-846664

### ATTRIBUTES

- Remarkably mild to skin
- Reduction of irritation potential of severe surfactants
- Comfortable and soft feeling of the skin during and after use
- Gentle cleansing
- Excellent foaming power
- Buffer capacity at skin pH
- Environmentally friendly
- Useful for certified natural cosmetics
- Free from sulfates, preservatives, fragrances

### APPLICATIONS

- Rinse-off products: facial and body cleansers, hair shampoos, baby bath soaps
- Dermatological products and cleansers
- Dental/oral hygiene: toothpastes and mouth washes
- Pet care: dog shampoos, mild cleaning products for pets, cleaners for blankets, beds
- Home care products: laundry, mild surface cleaners, manual dish washes, carpet cleaners



## SURFACTANTS BASED ON AMINO ACID N-METHYL GLYCINE (SARCOSINE)

Product Name	INCI	Dry Matter (%)	PO/PKO*	Remarks
Perlastan L-30	Aqua, Sodium Lauroyl Sarcosinate	30	0/21	
Perlastan L-30 MB	Aqua, Sodium Lauroyl Sarcosinate	30	0/21	RSPO - MB**
Perlastan C-30	Aqua, Sodium Cocoyl Sarcosinate	30	0/20	
Perlastan M-30	Aqua, Sodium Myristoyl Sarcosinate	30	0/23	

\* PO Palm oil / PKO Palm kernel oil [%]

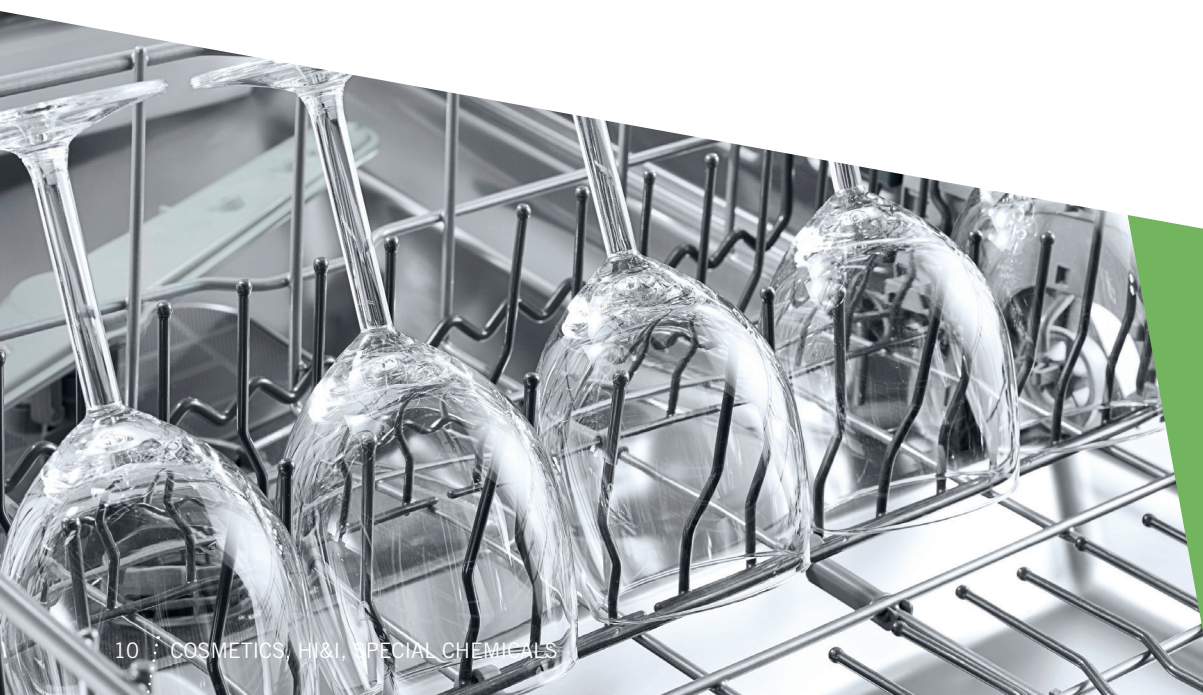
\*\* RSPO Certificate Number CU-RSPO SCC-846664

### ATTRIBUTES

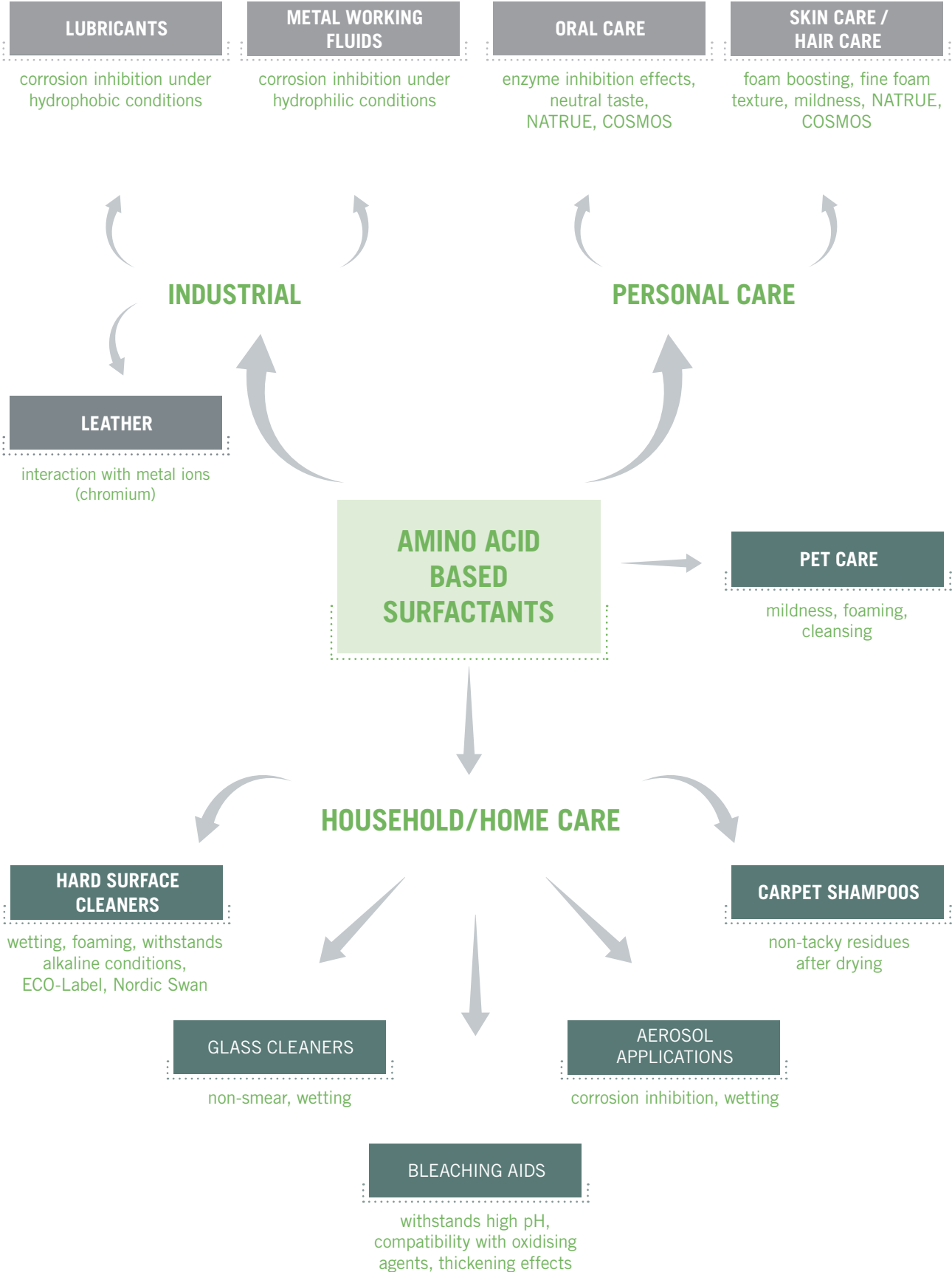
- Very mild to skin
- Reduction of irritation potential of severe surfactants
- Offers buffer capacity at skin pH
- Provides rich foam and smooth skin feel
- Resistant to sebum delathering
- Rapidly biodegradable
- Compatible with other surfactant systems
- Metal corrosion inhibition
- Free from sulfates, solvents, preservatives, fragrances

### APPLICATIONS

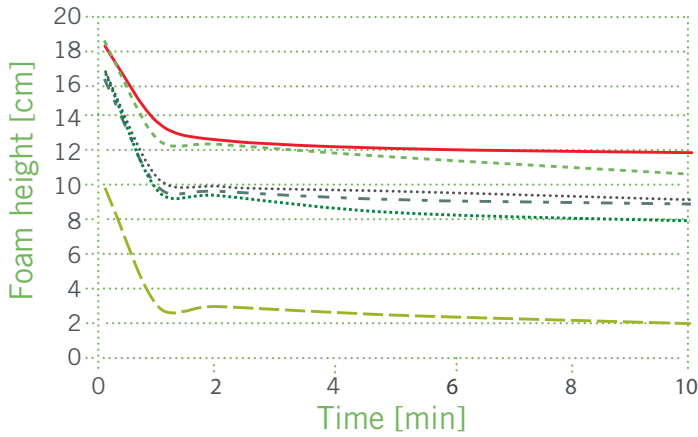
- Rinse-off applications: body wash, shampoos, liquid hand soaps, cleansing wipes, shaving gels, body scrubs, hair shampoos, hair conditioners
- Dental/oral hygiene: toothpastes and mouth washes
- Pet care: dog shampoos, mild cleaning products for pets, cleaners for blankets, beds
- Home care products: laundry detergents, mild surface cleaners, manual dish washes, carpet cleaners, glass cleaners
- Industrial applications: lubricants, rust preventive fluids, metal working fluids, anti-corrosion additives, cleaners



# APPLICATIONS AND BENEFITS



## ATTRIBUTES



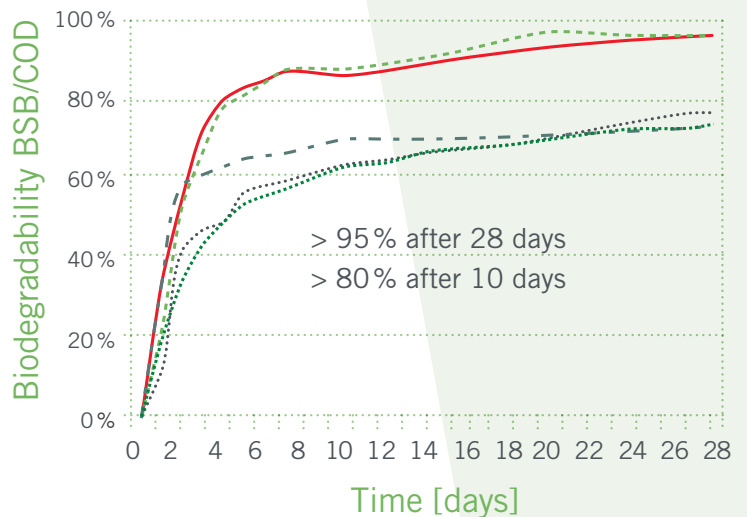
- |         |   |                |    |
|---------|---|----------------|----|
| —       | Sodium Cocoyl Glutamate (PERLASTAN SC 25 NKW) | micro porosity | ++ |
| - - - - | Sodium Lauroyl Sarcosinate (PERLASTAN L-30)   |                | ++ |
| .....   | Cocamidopropyl Betaine                        |                | +  |
| - - - - | Sodium Lauryl Sulfate                         |                | +  |
| .....   | Sodium Laureth-3 Sulfate                      |                | -  |
| - - - - | Sodium Oleate                                 |                | -- |

### PROMOTES FINE LATHER

Foam height and stability is comparable to extremely good foaming surfactants like sulfate and betaine surfactants. Most important factor is that the amino acid based surfactants provides very fine porous, mousse-like foam.

## ENVIRONMENTALLY FRIENDLY, HIGHLY AND RAPIDLY BIODEGRADABLE

Bacterial decomposition under aerobic (manometric respirometry test; OECD 301F) as well as anaerobic (ISO 11734) conditions takes place faster than with most other types of commercially available anionic surfactants. Sarcosinate and glutamate surfactants reach extremely high degradation values close to 100%.



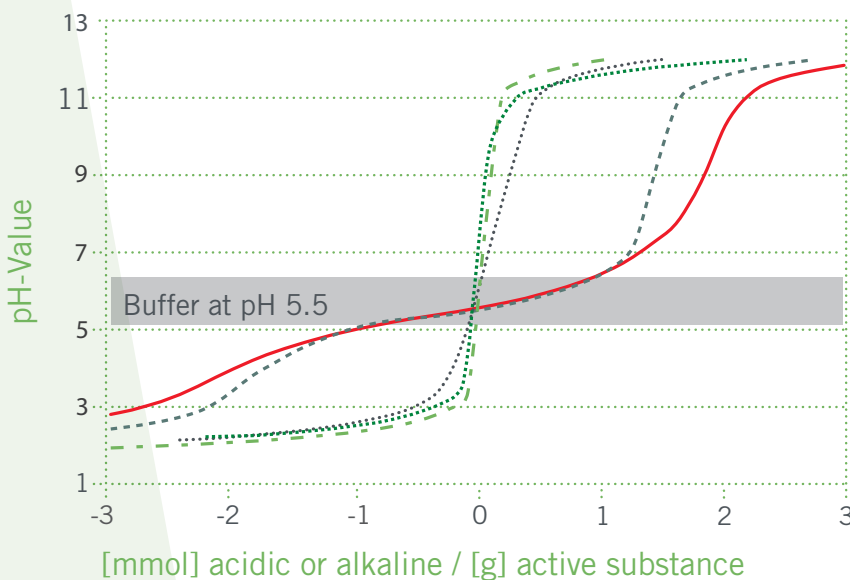
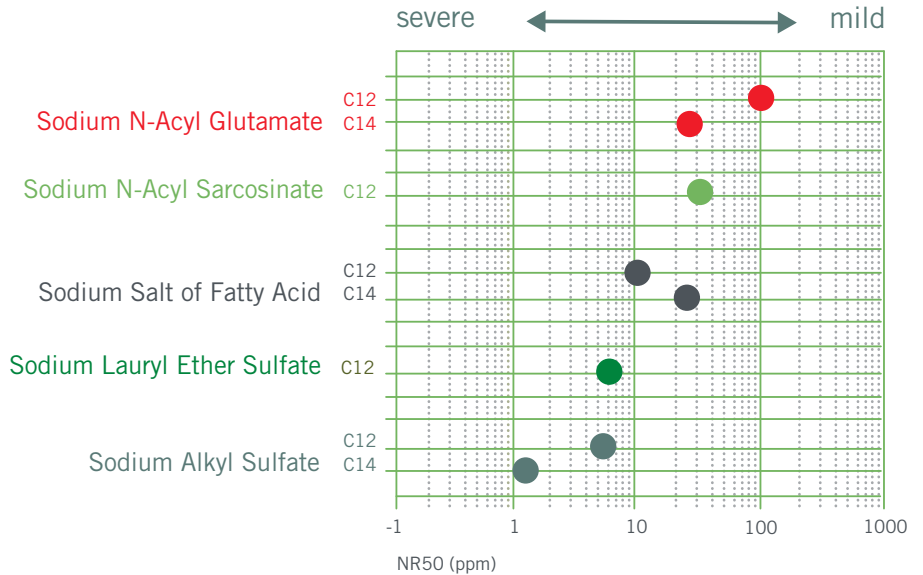
- |         |   |
|---------|---|
| —       | Sodium Cocoyl Glutamate (PERLASTAN SC 25 NKW) |
| - - - - | Sodium Lauroyl Sarcosinate (PERLASTAN L-30)   |
| .....   | Cocamidopropyl Betaine                        |
| - - - - | Sodium Lauryl Sulfate                         |
| .....   | Sodium Laureth-3 Sulfate                      |

# ATTRIBUTES

## MILDNESS TO SKIN

It was found by cytotoxicity tests that N-acyl amino acids achieve low toxicity for cultured human skin cells. The shorter the fatty acid chain part of amino acid surfactant the milder it behaves to human skin cells.

M. Kanari, Y. Kawasaki and K. Sakamoto  
J. Soc. Cosmet. Chem., 27, 498 (1993)



- Sodium Cocoyl Glutamate (PERLASTAN SC 25 NKW)
- - - - - Sodium Lauroyl Sarcosinate (PERLASTAN L-30)
- · · · · Cocamidopropyl Betaine
- - - - - Sodium Lauryl Sulfate
- · · · · Sodium Laureth-3 Sulfate

## BUFFER CAPACITY AT pH OF SKIN

PERLASTAN surfactants generally show at pH of 5 to 6.5 the buffer capacity of an unneutralized carboxylic acid. Especially the pH = 5.5 of the skin is supported during cleansing processes.

## RHEO2GREEN SELF-THICKENING SURFACTANT CONCENTRATES

READY-TO-USE SURFACTANT CONCENTRATES BASED ON DISODIUM COCOYL GLUTAMATE, BUILDING UP A REMARKABLE VISCOSITY WITHOUT THICKENING AGENT.

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

\* PO Palm oil / PKO Palm kernel oil [%]

\*\* RSPO Certificate Number CU-RSPO SCC-846664

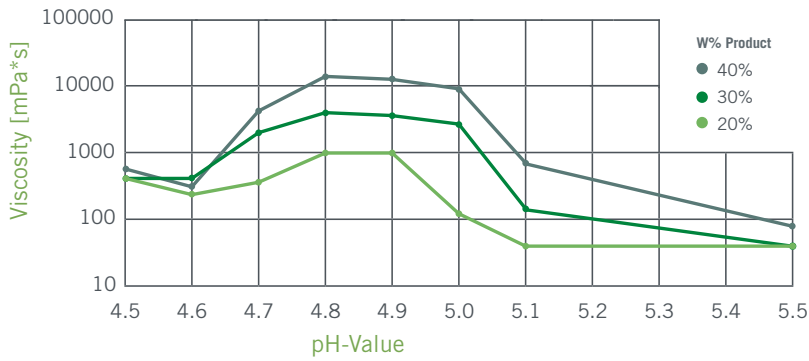
### ATTRIBUTES

- Rich fine-pored foam
- Outstanding micellar self-thickening at pH < 5.5
- Cold processable
- Buffer capacity at skin pH
- Mildness to skin
- Good cleansing ability
- Suitable for certified cosmetic products
- High biological degradability
- Environmentally friendly
- Free from sulfates, solvents, fragrances

### APPLICATIONS

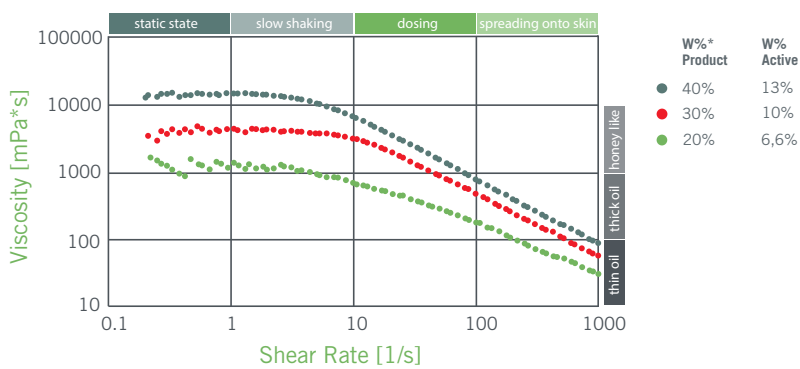
- Rinse-off products with smooth skin feeling and excellent foaming properties
- Shower gels, facial cleansing gels, micellar water, liquid hand soaps, hair care, baby bubble bath, wet wipes, shaving gels, natural / green / certified cosmetics, sulfate-free rinse-off products
- Home care: laundry detergents, mild surface cleaning, manual dish washes, carpet and glass cleaners
- Pet care: dog shampoos, mild cleaning products for pets, cleaners for blankets, beds

## ATTIBUTES



### THICKENING AT THE RIGHT pH

After dilution of Rheo2Green products with water (2:5 / 40%) and reducing the pH in a cold process, the viscosity will increase immediately, leading to desirable flow and foam behaviour of cleansing formulations. This is an inventive way to thicken in absence of polymers.



### 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.

\* Done with Rheo2Green1



## PAIR2PHASE ANIONIC EMULSIFIERS

### ANIONIC EMULSIFIERS BASED ON POTASSIUM CETYL PHOSPHATE

Product Name	INCI	PO/PKO*	Remarks
Pair2Phase1	Potassium Cetyl Phosphate, Behenyl Alcohol	0/39	COSMOS, NATRUE
Pair2Phase1 MB	Potassium Cetyl Phosphate, Behenyl Alcohol	0/39	COSMOS, NATRUE RSPO - MB**
Pair2Phase2	Potassium Cetyl Phosphate, Oryza Sativa Bran Cera	0/39	COSMOS, NATRUE
Pair2Phase2 MB	Potassium Cetyl Phosphate, Oryza Sativa Bran Cera	0/39	COSMOS, NATRUE RSPO - MB**

\* PO Palm oil / PKO Palm kernel oil [%]

\*\* RSPO Certificate Number CU-RSPO SCC-846664

#### ATTRIBUTES

- Good emulsifying ability of non-miscible liquids
- Application in certified cosmetic formulations
- No yellowing in sun care formulations
- Environmentally friendly
- Free from preservatives, fragrances and solvents
- PEG-free
- Humectant abilities
- Outstanding skin feeling without stickiness

#### APPLICATIONS

- Creams and lotions for face and body
- Hair care: hair masks and conditioners
- Facial cleansers, make up removers
- Sunscreens

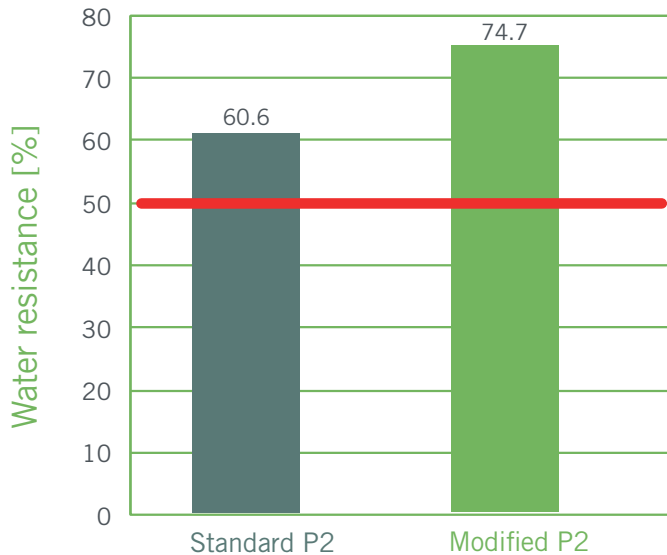
Pair2Phase mixtures are emulsifiers for cosmetic preparations such as creams and lotions for skin and body care in a variety of beauty and cosmetic products like shampoos, facial cleansers, exfoliants, sunscreens, moisturizers and make up removers. It allows the formulation of water resistant sun care products with similar smooth skin feel without stickiness. Due to its driving force to form lamellar surfactant phases like phosphor lipides, potassium cetyl phosphate takes care to regulate humidity on the skin. The surfactant property lowers the surface tension of cosmetic formulations and leads to an even distribution of the product when used.





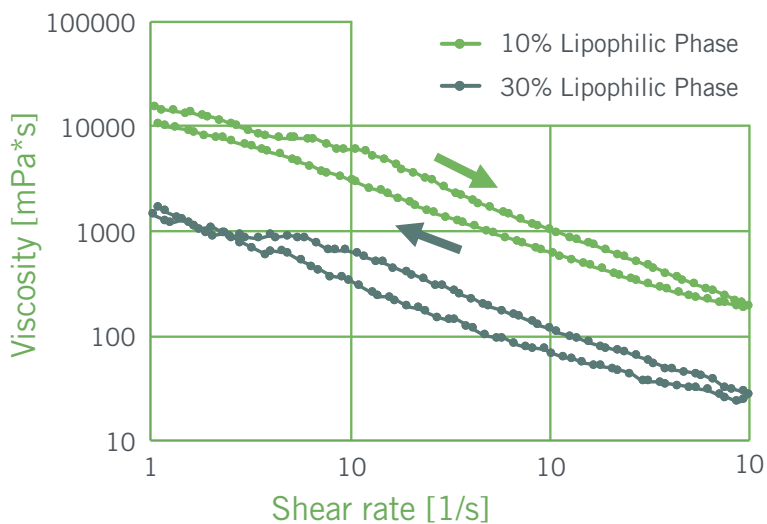
## ATTRIBUTES

### IMPROVEMENT OF WATER RESISTANCE



Colipa 2005 test with a modified P2 cream comprising Pair2Phase1 shows significant increase in water resistance compared to the standard P2 cream.

### LIQUID CRYSTAL-LIKE RHEOLOGICAL BEHAVIOUR



Examination regarding flow behavior of Pair2Phase based emulsions indicates the presence of thixotropic gels with shear thinning. These rheological properties can be explained by the formation of liquid crystal-like structure.

## POLYFIX ODOUR ABSORBERS

### CONCENTRATES OF ZINC DIRICINOLEATE COMPLEXES ACTIVATED BY SPECIAL AGENTS

Product Name	INCI / Ingredient	PO/PKO*	Remarks
Polyfix ZRC 25 GP	Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	4/0	COSMOS
Polyfix ZRC 25 MB	Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propanediol	4/0	COSMOS, RSPO - MB**
Polyfix ZRC 25 EC	Aqua, Zinc Ricinoleate, Tetrasodium Glutamate Diacetate, Propylene Glycol	0/0	COSMOS
Polyfix ZRC 50 TB	Zinc Ricinoleate, Laureth-3, Tetrahydroxypropyl Ethylenediamine, Propylene Glycol	0/20	
Polyfix ZRC 30 PAC	Propylene Glycol, Zinc Ricinoleate, Aqua, Arginine, Citric Acid	0/0	
Polyfix ZRC 70 TDL	Zinc Diricinoleate, Nonionic Components, Solvent	0/0	
Polyfix ZRC 35 AH	Water, Zinc Diricinoleate, Amino Acid, Chelating Agent	0/0	
Polyfix ZRC 30 MT	Water, Zinc Diricinoleate, Chelating Agent, Alcohol Ethoxylated	0/0	

\* PO Palm oil / PKO Palm kernel oil [%]

\*\* RSPO Certificate Number CU-RSPO SCC-846664

#### ATTRIBUTES

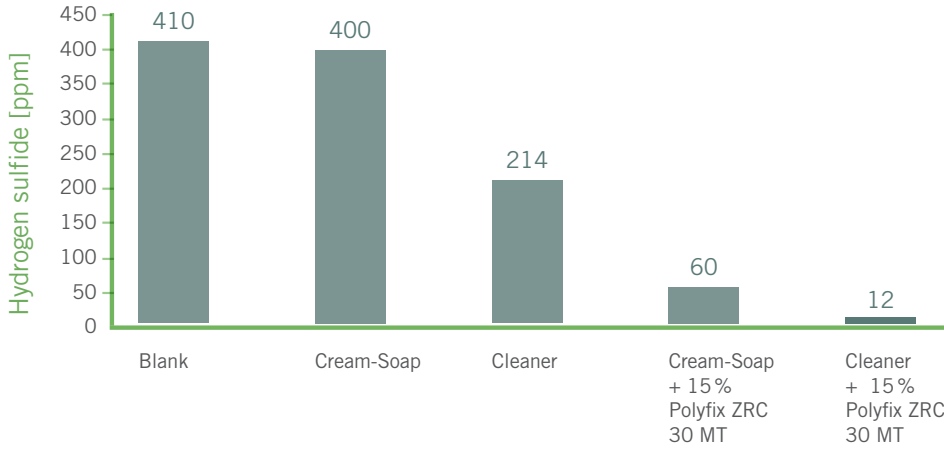
- Eliminates bad odour caused e.g. by amines, mercaptanes, hydrogen sulfides, organic acids, ammonia, thio esters etc.
- Tolerant to natural transpiration
- Readily biodegradable
- Water soluble and cold processable
- Compatible with non-ionic and anionic surfactants
- Recommended use level of 1 - 10 %
- Will not affect most fragrances
- Active as limescale remover

#### APPLICATIONS

- Personal care formulations: deodorants, hand sanitizers, foot creams, intimate hygiene products etc. against body odour
- Blends: hair depilatory creams, permanent hair straightening or permanent hair wave with unpleasant smell caused by raw materials
- Broad application range in HI&I cleaners for eliminating smells caused by urine, excrements, spoiled foods, tobacco etc.
- Pet care products: dog shampoos, cat litter cleaners against "scent marking" etc.

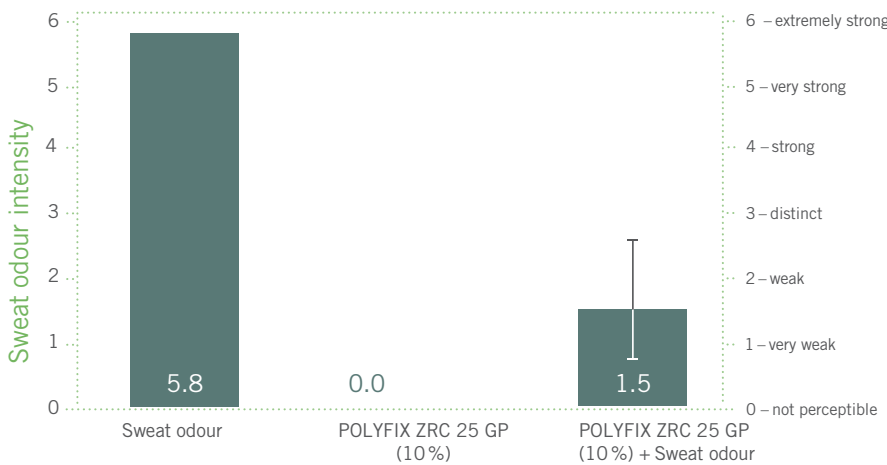


## ATTRIBUTES



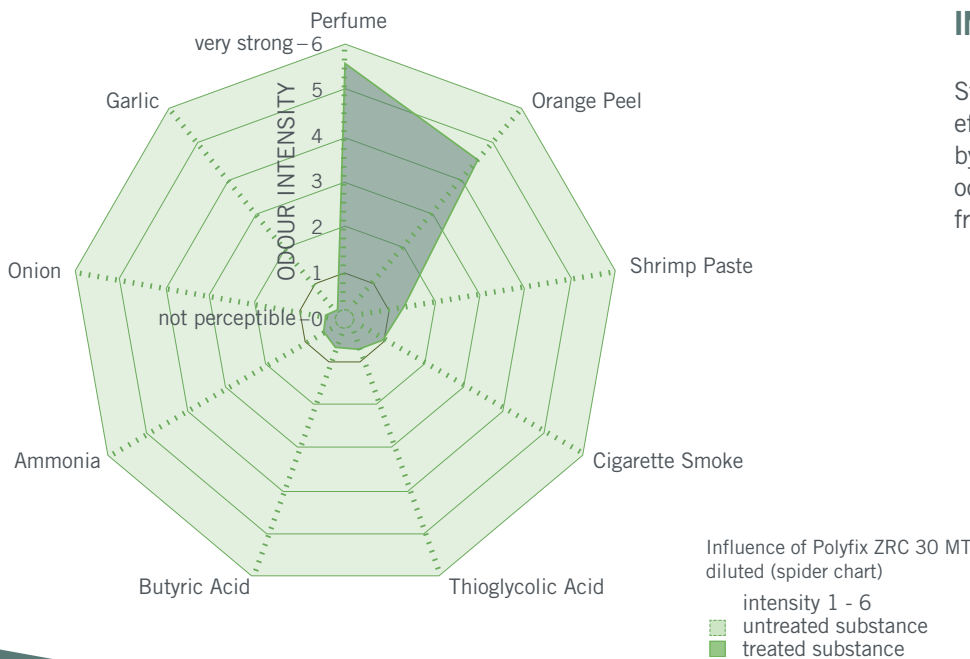
### ABSORPTION OF MALODOUR

Ability of standard cleaners to absorb hydrogen sulfide will be increased by addition of Polyfix ZRC 30 MT.



### REDUCTION OF SWEAT ODOUR

Artificial sweat odour absorption test performed by trained panellists using an olfactometric sampling unit shows drastically sweat odour intensity decrease by application of 10% solution of Polyfix ZRC 25 GP in comparison to a reference.



### INFLUENCE ON ODOURS

Statistical survey confirms excellent efficacy of Polyfix ZRC 30 MT by fighting against unpleasant odours and its compatibility with fragrances.



## SILAPHOS PHOSPHATE ESTERS

MIXTURE OF PHOSPHATE MONO- AND DI- ESTERS, RESULTING FROM THE REACTION OF P<sub>2</sub>O<sub>5</sub> WITH FATTY ALCOHOL OR FATTY ALCOHOL ETHOXYLATE

Product Name	Description	pH	Acid Value (mg KOH)	Appearance
Silaphos MDE 104	C10, POE 4	1 - 3	124 - 145	colourless-yellowish liquid
Silaphos MDE 104 K	C10, POE 4, K Salt	6 - 7		colourless-light yellowish liquid
Silaphos MDE N4	C4, n- Butyl	1 - 3	440 - 490	colourless-yellowish liquid
Silaphos MDE S8	C8, Ethylhexyl	1 - 3	280 - 330	yellowish liquid
Silaphos MDE U 185	C18, POE 5	1.5 - 3.5	60 - 80 / 100 - 125	yellowish liquid
Silaphos MDE S 138	C13, POE 8	2 - 3	95- 115	colourless-light yellowish liquid
Silaphos MDE 124	C12, POE 4	2 - 3	125 - 155	colourless-yellowish liquid
Silaphos MDE S 147	C13/15, POE 7	0 - 3	62 - 70 / 94 - 114	colourless-light yellowish liquid

- Chemical stability under acidic, neutral and alkaline conditions
- Remarkable emulsification properties
- Good solubility in water after neutralisation
- Compatibility with anionic and non-ionic surfactants
- Good antistatic and softening action regarding laundry
- Excellent wetting and dispersing properties
- Surface tension reduction
- Corrosion inhibition properties

# LOCATIONS.

## BÖBLINGEN

GERMANY

DIN EN ISO 9001:2015  
DIN EN ISO 14001:2015  
DIN EN ISO 50001:2011  
RSPO Certification Mass Balance

SPIN FINISHED FOR  
MAN-MADE FIBRES  
CHEMICALS FOR  
TECHNICAL TEXTILES  
LEATHER CHEMICALS  
PAPER CHEMICALS  
COSMETICS, HI&I,  
SPECIAL CHEMICALS

## HAMBURG

GERMANY

DIN EN ISO 9001:2015  
DIN EN ISO 14001:2015  
DIN EN ISO 50001:2011

RUBBER ADDITIVES  
ANTIFOAMS  
REACTIVE POLYMERS  
& FLAME RETARDANTS  
LATEX ADDITIVES  
SILICONES  
RELEASE AGENTS

## PIRNA

GERMANY

DIN EN ISO 9001:2015

SILICONES  
PU INDUSTRY  
PAPER  
TEXTILES  
COSMETICS  
FIBRES  
LEATHER

## STOW

USA

DIN EN ISO 9001:2008

RUBBER ADDITIVES  
PLASTIC ADDITIVES  
PVC ADDITIVES  
ENGINEERED  
THERMOPLASTIC ADDITIVES  
WOOD PLASTIC  
COMPOSITE ADDITIVES  
LEATHER CHEMICALS

## VILLA RICA

USA

RUBBER ADDITIVES

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