

CUSTOMIZED  
SOLUTIONS

Schill+Seilacher

struktol®



**FIBRE**

SILASTOL CARE

NATURAL HELPERS FOR DURABLE HYDROPHILIC NONWOVENS

SILASTOL CARE

# WHY USING SKIN CARE ADDITIVES ON TOPSHEETS FOR DISPOSABLE ARTICLES?

TODAY, CUSTOMERS EXPECT MORE THAN SIMPLY HAVING FUNCTIONAL PRODUCTS. FUNCTIONALITY BECAME A BASIC REQUIREMENT, THEREFORE ANYTHING ON TOP OF THESE REQUIREMENTS BECOME MORE AND MORE DESIRABLE. FOR THIS REASON, SCHILL+SEILACHER CREATED A NEW PRODUCTLINE THAT HELPS TO ACHIEVE CERTAIN VALUE ADDED EFFECTS ON A DISPOSABLE ARTICLE BY THE USE OF "NATURAL HELPERS". THIS NEW PRODUCTLINE IS CALLED SILASTOL CARE AND REPRESENTS AN ASSORTMENT OF NATURALLY BASED BOTANICALS. THESE COMPONENTS ARE WIDELY KNOWN FOR CERTAIN SKIN SUPPORTING EFFECTS SUCH AS MOISTURIZING OR SOOTHING.

- SILASTOL CARE ALMOND
- SILASTOL CARE ALOE
- SILASTOL CARE CAMOMILE
- SILASTOL CARE SILK
- SILASTOL CARE ACS
- SILASTOL CARE E
- COTTONSEED OIL

#### PRODUCT

### SILASTOL CARE ALMOND

#### SHORT DISCRPTION

Clear yellow oil, self-emulsifying, easy to handle, suitable for durable hydrophilic nonwovens

**Dry substance:** 95 %  
**Active Almond Oil:** 43 %  
**Shelf-life:** 9 months (original sealed container)

#### POTENTIAL BIOACTIVE COMPONENT

- Triglycerides with protein, alpha-Tocopherolacetate and Vitamin B, Calendula Oil
- Almond oil is commonly known for its effects such as moisturizing, reduces itching and swelling of skin

Almond oil is used in cosmetics such as skin creams and anti-aging products as moisturizer and emollient. Almond oil is extracted from the ripe, shell-free seeds of the almond tree *Prunus dulcis* [Mill.] D. A. Webb. var. *dulcis* or var. *amara* [DC.] Buchheim or a mixture of both qualities. Almonds are a rich source of oil with an oil content of around 50%. Its oil is high in mono and polyunsaturated fatty acids, with oleic acid (an omega-9 fatty acid) as the main fatty acid (~65%), approx. 22% linoleic acid (polyunsaturated omega-6 essential fatty acid) and ~10% palmitic acid (saturated fatty acid).

## NATURAL HELPERS FOR DURABLE HYDROPHILIC NONWOVENS

### PRODUCT

#### SILASTOL CARE ALOE

### SHORT DISCRIPTION

Yellowish liquid, Aloe Vera gel concentrate

**Active:** 5 %

**Shelf-life:** 9 months (original sealed container)

### POTENTIAL BIOACTIVE COMPONENT

- Acetylated Mannans, Glucomannan, Pectin
- Aloe Vera is commonly known for its effects such as soothing, healing and reduction of chafing

The botanical name of Aloe vera is *Aloe barbadensis miller*. The Aloe vera plant has been used in many cultures for thousands of years because of its health, beauty, medicinal and skin care properties. It contains numerous potentially active constituents (vitamins, enzymes, minerals, sugars, lignin, saponins, salicylic acid and amino acids). It shows effects on wound healing, protective effects against skin radiation damage, anti-inflammatory actions, effects on the immune system, laxative effects, antiviral and antitumor activity, moisturizing and anti-aging effects.

#### SILASTOL CARE CAMOMILE

Clear brown liquid, aqueous extract of the chamomile plant (*matricaria camomilla*)

**Active:** 4 %

**Shelf-life:** 9 months (original sealed container)

- Alpha-Bisabolol, Bisabololoxide, Flavonoide
- Camomile is commonly known for its anti-septic, anti-inflammatory and fungistatic effects

Camomile is a well-known medicinal plant species from the Asteraceae family. It has been used as herbal medication for thousands of years, known in ancient Egypt, Greece and Rome. It contains a large group of therapeutically active classes of compound (sesquiterpenes, flavonoids, coumarins, and polyacetylenes). As a drug, it finds use as antioxidant, wound treatment, anti-inflammatory and treatment for bacterial infections of the skin, oral cavity and gums, and respiratory tract.





## NATURAL HELPERS FOR DURABLE HYDROPHILIC NONWOVENS

### PRODUCT

#### SILASTOL CARE SILK

### SHORT DESCRIPTION

Clear brown liquid, hydrolized silk proteins

**Active:** 29 %

**Shelf-life:** 9 months (original sealed container)

### POTENTIAL BIOACTIVE COMPONENT

- Hydrolyzed fibroin and sericin, amino acids
- Hydrolyzed silk protein is commonly known for its moisture retenting, skin healing and soft touch providing effects

Hydrolyzed silk protein is prepared from the cocoon of the silkworm moth (*Bombyx mori*) and can be found in numerous skin and hair conditioning agents. Hydrolyzed silk protein has a relatively low molecular mass and is therefore highly effective in penetrating the upper layers of the skin. It can help the skin's moisture barrier to retain moisture and producing a pleasant and long-lasting feeling of freshness and smoothness. As any emollient, hydrolyzed silk protein makes the skin silky smooth and nice to touch.

### PRODUCT

#### SILASTOL CARE ACS

### SHORT DESCRIPTION

Clear brownish liquid, easy to handle

**Active:** 3.6 % (approx. 1.2 % active Aloe Vera gel, approx. 1.2 % active Camomile, approx. 1.2 % active hydrolized silk proteins)

**Shelf-life:** 6 months (original sealed container)

### POTENTIAL BIOACTIVE COMPONENT

- Combination of Aloe Vera gel, Camomile and hydrolyzed silk protein
- Effects: combination of effects as mentioned under CARE ALOE, CARE SILK and CARE CAMOMILE



PRODUCT	SHORT DISCRIPTION	POTENTIAL BIOACTIVE COMPONENT
<b>SILASTOL CARE E</b>	White-yellowish powder  <b>Active Tocopherolacetate:</b> 50 % <b>Shelf-life:</b> 9 months (original sealed container)	<ul style="list-style-type: none"> <li>Alpha-Tocopherol, Tocotrienols</li> <li>Alpha-Tocopherolacetate (Vitamin E) is commonly known for its wound healing and moisturising effects</li> <li>It also works as radical scavenger/ antioxidant</li> </ul>

The human body absorbs vitamin E with the dietary fat. Sources of vitamin E are primarily vegetable oils, nuts, seeds, butter and eggs. Vitamin E is a very efficient lipid-soluble antioxidant that may inhibit lipid peroxidation. Because of its lipophilic properties it has a high affinity to biological membranes and thus a high skin penetration ability. Vitamin E is added to skin creams and sunscreens because of its skin care properties.

PRODUCT	SHORT DISCRIPTION	POTENTIAL BIOACTIVE COMPONENT
<b>COTTONSEED OIL</b>	Clear yellow oil, Gossypium Herbaceum Seed Oil  <b>Shelf-life:</b> 12 months (original sealed container)	<ul style="list-style-type: none"> <li>Triacylglycerols, high in linoleic acid (C18:2), oleic acid (C18:1) and palmitic acid (C16:0)</li> <li>Cottonseed oil is commonly known for its skin soothing and moisturizing effect</li> </ul>

Cottonseed oil is extracted from the seed of the cotton plant (Gossypium) by pressing and subsequent refining. The cotton plant (Gossypium) is a plant genus within the family of the mallow family (Malvaceae). Its seeds have a fatty oil content of between 15 and 30 %. Cottonseed oil has many food applications such as salad and cooking oil. It is very heat-resistant and at the same time contains a high proportion of polyunsaturated fatty acids. Linoleic acid, one of the polyunsaturated fatty acids in cottonseed oil, has anti-inflammatory, acne reductive, skin-lightening and moisture retentive properties when applied topically on the skin

# STAY NATURAL

## COMPATABILITY OF SILASTOL CARE PRODUCTS WITH SCHILL+SEILACHER SPIN FINISHES

COMPATABILITY OF OUR SILASTOL CARE PRODUCTS HAS BEEN TESTED WITH A SELECTED ASSORTMENT OF DURABLE HYDROPHILIC SPIN FINISHES. ADD SILASTOL CARE INTO THE EMULSION PREPARED FROM THE SPIN FINISH. THE RESULTING EMULSION PLUS SILASTOL CARE SHOWS A STABILITY OF AT LEAST 12 HOURS (AT ROOM TEMPERATURE), WHICH GIVES ENOUGH TIME FOR APPLICATION.

Stir the container (Spin Finish and CARE Additives) gently before removing any portion of the content.

Use demineralized water for the preparation of the emulsions or dilutions.  
Stir gently to avoid excessive foaming and sheer stress.

<b>SILASTOL 163</b>	Durable hydrophilic, Si-free, low wetback, FDA, EU10/2011, for Topsheet; 94 % active
<b>SILASTOL PHP 26</b>	Durable hydrophilic, for Topsheet and Corecover; 17 % active
<b>SILASTOL PHP 28</b>	Durable hydrophilic, for Topsheet; 17 % active
<b>SILASTOL PHP 207</b>	Durable hydrophilic, for Topsheet; 96 % active
<b>SILASTOL PHP 90</b>	Durable hydrophilic, for Topsheet and ADL; 60 % active

### APPLICATION ON NONWOVEN

If you have any questions regarding the application of Silastol Care, please contact our service team.





# LOCATIONS.

## BÖBLINGEN

GERMANY

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

SPIN FINISHES FOR  
MAN-MADE FIBRES  
CHEMICALS FOR  
TECHNICAL TEXTILES  
LEATHER CHEMICALS  
PAPER CHEMICALS  
COSMETIC, 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

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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