

THE VITALITY OF THE SEA



VENOSAN®  
7000



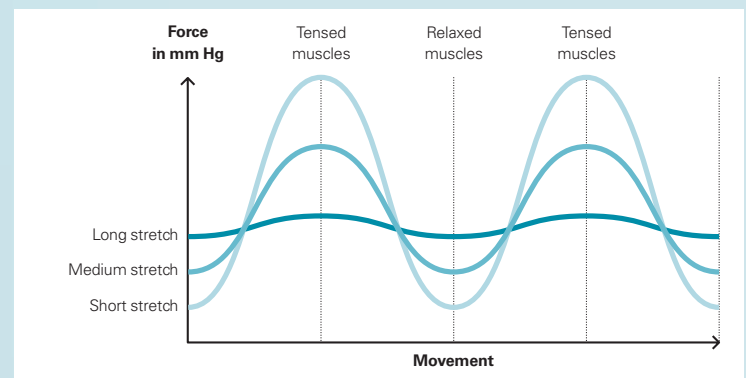
Successful treatment guaranteed with  
SeaCell® active – the feel good fibre

finest  
comfort

# Durability with high stiffness

VENOSAN® 7000 are characterised as shaping, opaque compression stockings with high stiffness. Thanks to their durability they are specially suitable for people who demand a lot from their stockings at work, in sports and in their leisure time.

**Stiffness:** "stiffness"<sup>1)</sup> is understood as the increase in pressure underneath a compression stocking in relation to the increase in circumference of the segment of the leg due to muscular contraction when standing and walking. Materials with high stiffness apply a stronger massage effect and can more effectively prevent swelling of the legs.



## Different degrees of stretch

- Long stretch: very elastic support stockings (e.g. 40 and 70 den) = no stiffness and little effect
- Medium stretch: elastic support stockings (e.g. 140 den) and light medical compression stockings = little stiffness and minor effect
- Short stretch: firm elastic medical compression stockings = high stiffness and major effect

**Medical benefit:** it has been shown<sup>2)</sup> that a high stiffness index, i.e. low pliability of the stocking (similar to that of short stretch bandages), is associated with a more pronounced reduction in venous reflux when walking with a subsequent fall in ambulatory venous hypertension.

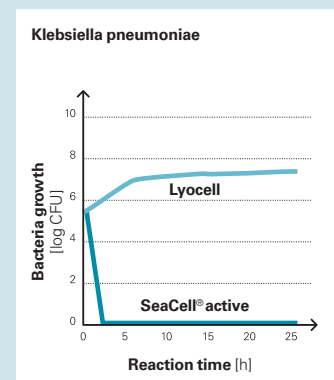
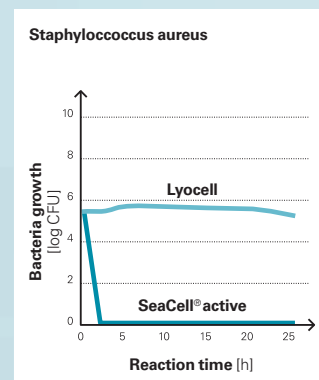
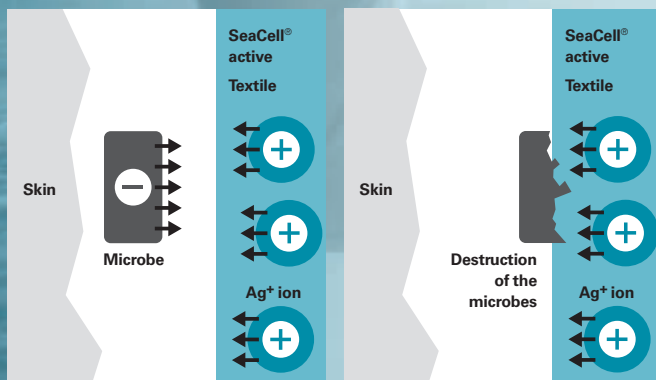
<sup>1)</sup> prCEN/TR 15831 European Prestandard. Medical compression hosiery. European Committee for Standardization. Brussels, 2008; 1–24

<sup>2)</sup> Van Geest AJ, Veraart JC, Nelemans P, Neumann HA. The Effect of Medical Elastic Compression Stockings with Different Slope Values on Edema. Measurements underneath three different types of stockings. Dermatol Surg. 2000; **26**: 244–247

# Antibacterial and fungicidal

The silver content of SeaCell® active allows a positive influence on the skin flora. Numerous tests at different institutes have confirmed positive results and proved the permanent "SeaCell® active effect":

**Antibacterial\* and fungicidal\*:** the totally harmless silver has fungicidal and antibacterial actions (inhibits fungi and bacteria). This has been confirmed by investigations at the Friedrich-Schiller University in Jena<sup>3), 4)</sup> and at the Hohenstein Institute (Germany) by standardised test series.



**Permanent effect:** the antibacterial effect is a permanent feature of SeaCell® active which is retained even after 150 washing cycles\*.

**Skin-friendly:** the SeaCell® active fibre has no cytotoxic effects (the property of substances or certain cells to destroy other cells is absent) and is thus well tolerated. An epicutaneous test (skin test to show allergic reactions to a particular substance) showed that the SeaCell® active fibre does not cause any allergic or irritative reactions in sensitive skin.

**Effective in neurodermatitis:** a scientific study<sup>5)</sup> has also shown that this fibre is helpful against atopic dermatitis (neurodermatitis). This significantly reduces the Staphylococcus aureus burden on the skin.

\* Test certificates available upon request.

<sup>3)</sup> Antifungal and Antibacterial Properties of a Silver-Loaded Cellulosic Fiber, Hipler UC., Elsner P., Fluhr J.W. J Biomed Mater Res, Part B: Appl Biomater 2006; **77B**: 156–163

<sup>4)</sup> Textilien mit antimykotischen und antibakteriellen Eigenschaften, Hipler UC.; Mycoses, **51** (suppl. 3), 39–43 (only in German)

<sup>5)</sup> Silberaktivierte Cellulose-Fasern mit bakterizider und fungizider Wirkung in vitro und in vivo bei Patienten mit atopischer Dermatitis, Joachim W. Fluhr et. al. Dept. of Dermatology, Friedrich-Schiller-University Jena, Germany (only in German)

# SeaCell® active – the feel good fibre

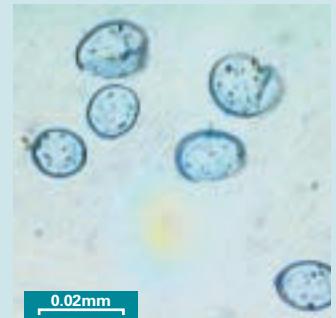
## Natural

VENOSAN® 7000 contains SeaCell® active, a cellulose fibre with natural, untreated brown algae and silver ions. The algae grow in the cold and very pure seawater of the North Atlantic. After harvesting they are dried and then crushed.

There is a good reason for adding algae as an active substance: In ancient Chinese medicine it was already well-known that these seaweeds contain a high proportion of different minerals, trace elements, carbohydrates, fats and vitamins.



Brown algae (Ascophyllum nodosum)



Cross-section of the SeaCell® fibre: the algae (black particles) are evenly distributed

## How algae act to promote good health:

- Inhibit inflammation and relieve itching
- The minerals remineralise the skin
- Successful in the treatment of neurodermatitis and psoriasis

## The algae contain:

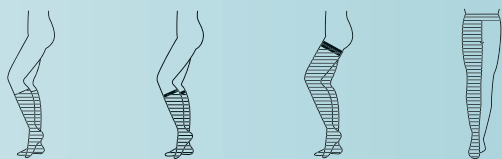
Carbohydrates	Amino acids	Vitamins	Minerals
Alginic acid	Arginine	Ascorbic acid	Aluminium
Laminarine	Asparagine	Carotinoids	Calcium
Mannitol	Valine	Tocopherols	Magnesium
			Sodium
			Potassium

# VENOSAN® 7002

## Compression class II

Pressure at the ankle 23–32 mm Hg (3.1 – 4.3 kPa)

High stiffness



Toe

open or closed

open

### AD

Below knee

### ADH

Below knee  
with self  
supporting  
plain top

### AGH

Thigh length  
with self  
supporting  
plain top

### AGG

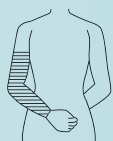
Thigh length  
with belt left  
or right

Article	Colour	Length	Toe	Self supporting top	SMALL	MEDIUM	LARGE	X-LARGE
AD	beige	long	open		SG72001	SG72002	SG72003	SG72004
		short	open		SG72021	SG72022	SG72023	SG72024
	black	long	closed		SG72011	SG72012	SG72013	SG72014
		short	closed		SG72031	SG72032	SG72033	SG72034
ADH	beige	long	open		SN72001	SN72002	SN72003	SN72004
		short	open		SN72021	SN72022	SN72023	SN72024
	black	long	closed		SN72011	SN72012	SN72013	SN72014
		short	closed		SN72031	SN72032	SN72033	SN72034
AGH	beige	long	open	plain	SG72041	SG72042	SG72043	SG72044
		short	open	plain	SG72061	SG72062	SG72063	SG72064
	black	long	closed	plain	SG72051	SG72052	SG72053	SG72054
		short	closed	plain	SG72071	SG72072	SG72073	SG72074
AGG	beige	long	open	plain	SN72041	SN72042	SN72043	SN72044
		short	open	plain	SN72061	SN72062	SN72063	SN72064
	black	long	closed	plain	SN72051	SN72052	SN72053	SN72054
		short	closed	plain	SN72071	SN72072	SN72073	SN72074
AGG left	beige	long	open		SG72601	SG72602	SG72603	SG72604
		short	open		SG72621	SG72622	SG72623	SG72624
	black	long	closed		SG72611	SG72612	SG72613	SG72614
		short	closed		SG72631	SG72632	SG72633	SG72634
AGG right	beige	long	open		SN72601	SN72602	SN72603	SN72604
		short	open		SN72621	SN72622	SN72623	SN72624
	black	long	closed		SN72611	SN72612	SN72613	SN72614
		short	closed		SN72631	SN72632	SN72633	SN72634
AGG left	beige	long	open		SG72151	SG72152	SG72153	SG72154
		short	open		SG72161	SG72162	SG72163	SG72164
AGG right	beige	long	open		SG72171	SG72172	SG72173	SG72174
		short	open		SG72181	SG72182	SG72183	SG72184

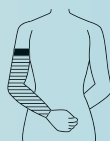
# VENOSAN® 7002

## Compression class II

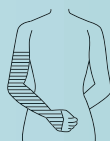
Pressure at the wrist 23–32 mm Hg (3.1 – 4.3 kPa)  
High stiffness



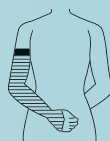
**CG**



**CG-H**



**ZG**



**ZG-H**

Article	Colour	Length	Hand extension	Self supporting top	SMALL	MEDIUM	LARGE	X-LARGE
<b>CG</b> (ex BH)	<b>beige</b>	long short	without	without	SG72501 SG72511	SG72502 SG72512	SG72503 SG72513	SG72504 SG72514
<b>CG-H</b>	<b>beige</b>	long short	without	plain	SG72521 SG72531	SG72522 SG72532	SG72523 SG72533	SG72524 SG72534
<b>ZG</b>	<b>beige</b>	long short	with	without	SG72541 SG72551	SG72542 SG72552	SG72543 SG72553	SG72544 SG72554
<b>ZG-H</b>	<b>beige</b>	long short	with	plain	SG72561 SG72571	SG72562 SG72572	SG72563 SG72573	SG72564 SG72574

# VENOSAN® 7003

## Compression class III

Pressure at the ankle 34–46 mm Hg (4.5 – 6.1 kPa)  
High stiffness



**AD**  
Below Knee



**ADH**  
Below knee  
with self  
supporting  
plain top



**AGH**  
Thigh length  
with self  
supporting  
plain top

Article	Colour	Length	Toe	Self supporting top	SMALL	MEDIUM	LARGE	X-LARGE
<b>AD</b>	<b>beige</b>	long short	open		SG73001 SG73021	SG73002 SG73022	SG73003 SG73023	SG73004 SG73024
		long short	closed		SG73011 SG73031	SG73012 SG73032	SG73013 SG73033	SG73014 SG73034
	<b>black</b>	long short	open		SN73001 SN73021	SN73002 SN73022	SN73003 SN73023	SN73004 SN73024
		long short	closed		SN73011 SN73031	SN73012 SN73032	SN73013 SN73033	SN73014 SN73034
<b>ADH</b>	<b>beige</b>	long short	open	plain	SG73041 SG73061	SG73042 SG73062	SG73043 SG73063	SG73044 SG73064
		long short	closed	plain	SG73051 SG73071	SG73052 SG73072	SG73053 SG73073	SG73054 SG73074
	<b>black</b>	long short	open	plain	SN73041 SN73061	SN73042 SN73062	SN73043 SN73063	SN73044 SN73064
		long short	closed	plain	SN73051 SN73071	SN73052 SN73072	SN73053 SN73073	SN73054 SN73074
<b>AGH</b>	<b>beige</b>	long short	open	plain	SG73601 SG73621	SG73602 SG73622	SG73603 SG73623	SG73604 SG73624
		long short	closed	plain	SG73611 SG73631	SG73612 SG73632	SG73613 SG73633	SG73614 SG73634
	<b>black</b>	long short	open	plain	SN73601 SN73621	SN73602 SN73622	SN73603 SN73623	SN73604 SN73624
		long short	closed	plain	SN73611 SN73631	SN73612 SN73632	SN73613 SN73633	SN73614 SN73634



# VENOSAN® 7000

## How should you take measurements?

For correct measurements it is very important to take your time and proceed systematically. Whenever possible, the measurements should be taken when the leg is rested and not swollen. **The measurements should always be taken with the patient standing.** Well fitting medical compression stockings are the key to a successful treatment and satisfied patients



Measure:

### Below knee AD, ADH

1. the circumference of the ankle **cB**
2. the circumference of the calf **cC**
3. the circumference of the leg just below the knee **cD**
4. the length of the leg from the base of the heel to just below the knee **ID**

### Thigh length with self supporting top AGH,

### Thigh length with belt left or right AGG

1. the circumference of the ankle **cB**
2. the circumference of the calf **cC**
3. the circumference of the leg just below the knee **cD**
4. the circumference of the thigh **cG**
5. the inside leg **IG** (for AGG up to the groin **IK**)

## Measurement Position / Circumference Measurements

**cG** Thigh (5 cm below groin)

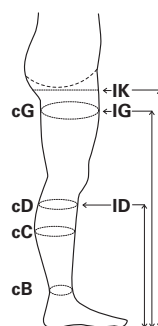
**cD** Narrowest point approx. 2–3 cm below the knee

**cC** Widest part of the calf

**cB** Ankle (narrowest point above ankle bone)

### Subsequently compare with the size chart for:

1. Which size does the ankle circumference **cB** fall into (small, medium, large oder x-large)
2. Which size do the other measurements fall into **cC**, **cD** and **cG**



## Size Charts

Circumference (cm)	SMALL	MEDIUM	LARGE	X-LARGE
<b>cB</b> Ankle	20 – 23	23 – 26	26 – 29	29 – 31
<b>cC</b> Mid-calf	29 – 39	33 – 42	36 – 45	39 – 47
<b>cD</b> Below the knee	28 – 38	32 – 41	35 – 44	38 – 46
<b>cG</b> Thigh	48 – 63	54 – 67	58 – 72	63 – 74

Length (cm)			
<b>ID</b>	<b>AD/ADH</b>	short long	35 – 40 37 – 42
<b>IG</b>	<b>AGH</b>	short long	63 – 72 68 – 78
<b>IK</b>	<b>AGG</b>	short long	67 – 74 74 – 85

## Size

It is important that we achieve the correct pressure gradient in accordance with the compression class prescribed by the doctor. The pressure exerted on the leg is determined by 2 factors:

- a) Physical law (La Place), which says that with constant tension the pressure is reduced with increased circumference and vice versa.
- b) With increased stretch the tension is increased and vice versa.

One effect is therefore partially compensated through the other: Larger circumference = pressure loss due to circumference, but pressure gain due to increased tension of the material.

Thanks to more than 50 years experience we are familiar with these effects and can therefore offer a simple size range in accordance with our sizing chart, which guarantees medical efficacy. **For legs with a special shape or form we offer a made-to-measure service with extra fast delivery.**

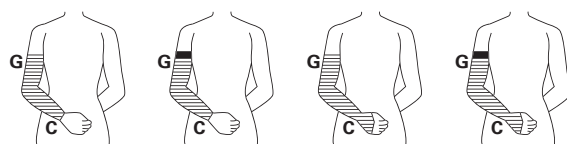
## Length

VENOSAN® 7000 has a very high stretch in the length and adapts to almost every leg length without slipping. We have also proven through extensive testing that with a difference in length of +/- 3 cm, the pressure changes only by 3–5 %

# VENOSAN® 7000

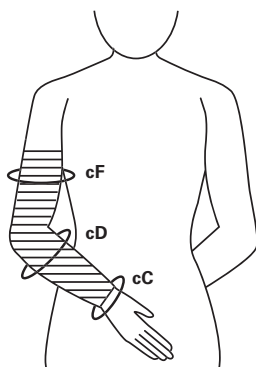
## How should you take measurements?

For correct measurements it is very important to take your time and proceed systematically. Whenever possible, the measurements should be taken when the arm is rested and not swollen. Well fitting medical compression arm sleeves are the key to a successful treatment and satisfied patients.



Length (cm)	SHORT	LONG
Wrist (C) to upper arm (G)	35 – 45	40 – 50

The length is measured on the outstretched arm.



Circumference wrist (cm)	SMALL	MEDIUM	LARGE	X-LARGE
cC	14 – 17	17 – 20	20 – 23	23 – 26

Circumference forearm (cm)	SMALL	MEDIUM	LARGE	X-LARGE
cD	22 – 26	26 – 30	30 – 34	34 – 38

Circumf. upper arm (cm)	SMALL	MEDIUM	LARGE	X-LARGE
cF	24 – 30	30 – 36	36 – 42	42 – 48



# VENOSAN® 7000

## Seamless made-to-measure stockings



Toe

open or closed

**AD**

Below knee

**ADH**

Below knee  
with self sup-  
porting plain top

**AGH**

Thigh length  
with self sup-  
porting plain top

**AGH**

Thigh length  
with self sup-  
porting lace top

**AGG**

Thigh length  
with belt

**AT**

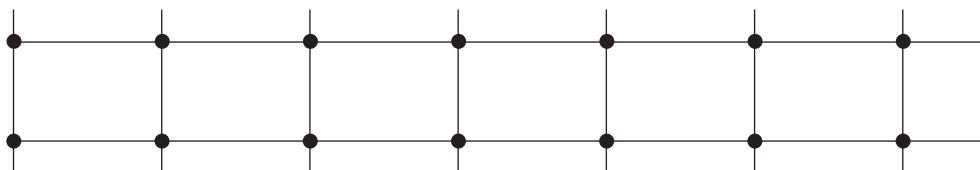
Pantyhose

**ATH**

Men's tights  
with slit

**7002** / Ccl. II

Beige  
Black

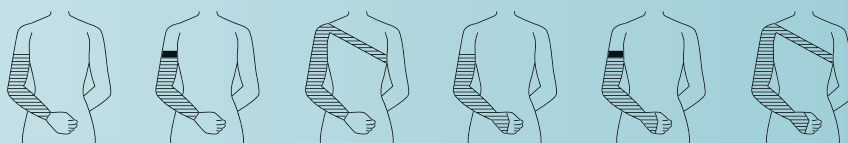


**7003** / Ccl. III

Beige  
Black

# VENOSAN® 7000

## Seamless made-to-measure arm sleeves



**CG**

**CG-H**

**CH**

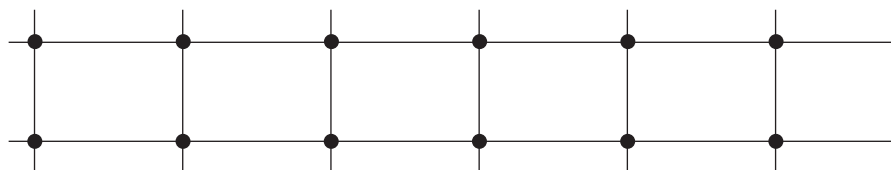
**ZG**

**ZG-H**

**ZH**

**7002** / Ccl. II

Beige



**7003** / Ccl. III

Beige

Whenever possible take the measurements with the leg/arm rested/not swollen! All measurements should be made on the bare skin! Custom made stockings may not be returned! The orderer will be held responsible for incorrect measurements!

**Please ask for the special order form for made-to-measure stockings (REF 995220 E) or for made-to-measure arm sleeves (REF 995221).**

 **Tactel®**  
BRAND



### Material

62% TACTEL® Polyamide  
26% LYCRA® Elastane  
8% Cotton  
4% SeaCell® active



TACTEL® fibre is a registered trademark of INVISTA and is used under license to NILIT® for nylon fibre products.  
LYCRA® fibre is a registered trademark of INVISTA.

Beige

Black



*Salzmann*  
**MEDICO**

SALZMANN AG  
Salzmann MEDICO  
Rorschacher Strasse 304  
CH-9016 St.Gallen  
Tel. +41 (0)71 282 12 12  
Fax +41 (0)71 282 12 10  
[medico.sg@salzmann-group.ch](mailto:medico.sg@salzmann-group.ch)  
[www.salzmann-group.ch](http://www.salzmann-group.ch)  
[www.venosan.com](http://www.venosan.com)

