



- for large-area shielding of highfrequency electromagnetic waves
- very good tear resistance with soft quality, antistatic, elastic
- 100 % textile properties
- elastic knitted fabric for a wide range of applications
- Organic Cotton, kbA (controlled organic cultivation)
- The New Antiwave quality is a right-left jacquard knit, in a combination of combed organic, certified organic cotton and silver coated polyamide

The coating does not consist of controversial nanosilver, but of 20 % pure silver that surrounds the entire polyamide fibre. The metallic silver is absolutely harmless to human health and to nature.

Pure silver has a natural antibacterial effect and can also have a positive effect on skin problems as well as excessive sweating and body odour.

Thanks to the innovative fabric construction and the use of high-quality materials, this knitted fabric protects against electromagnetic radiation with an efficiency of > 99 %. This is confirmed by an expert opinion by the EMF test lab Bavaria.

Particularly suitable for making linen, pillowcases, blankets, etc.

00963-68-69-70-DATA.HTEX-V2.0.1-280623

New Antiwave is a particularly easy-care quality. A high-quality finish ensures that the shielding property is retained even after several washes. Due to the antibacterial effect of the silver, washing at 30 - 40 $^{\circ}$ C is sufficient.

Order-No.: 100990, 100992, 100993 Short-Desc.: AW Woman-Shirt black - S, M, L



Shielding knitted fabric AW Woman-Shirts - black

| Туре | MHz | dB | in % |
|---------------|-------------|----|--------|
| DVB-T2 | 470 - 690 | 26 | > 99,0 |
| LTE / 5G wide | 700 - 750 | 26 | > 99,0 |
| GSM, LTE | 920 - 960 | 26 | > 99,0 |
| GSM, LTE | 1800 - 1880 | 23 | > 99,0 |
| DECT | 1880 - 1900 | 23 | > 99,0 |
| LTE, 5G wide | 2110 - 2170 | 21 | > 99,0 |
| W-LAN 2400 | 2400 - 2500 | 20 | ~ 99,0 |
| 5G fast | 3400 - 3700 | 17 | ~ 98,0 |
| W-LAN 5200 | 5150 - 5350 | 13 | ~ 95,0 |

| Technical data | | |
|--------------------------|--|--|
| available sizes: | S, M, L ≈ 36/38, 40/42, 44/46 | |
| thickness: | ca. 0,5 mm ± 10 % | |
| colour: | black / silver | |
| basis weight: | ca. 125 g/m² | |
| mesh size: | < 0,1 mm x 0,1 mm opaque | |
| composition: | 89 % Cotton (Organic) 9 % Polyamide 2 % Silver | |
| properties: | very good tear resistance with soft quality, antistatic, elastic | |
| wash cycles: | ~ 40 x | |
| basis of examination: | IEEE Standard 299™-2006 | |
| shielding effectiveness: | max. 26 dB (> 99 %) | |

Care instructions



particularly gentle washing (delicate or wool wash cycle at 30 or 40 °C)



gentle ironing on level 1 (iron at low temperature)



bleaching not allowed No detergents with bleach



do not tumble dry



no dry cleaning

Scope of application

public areas, home

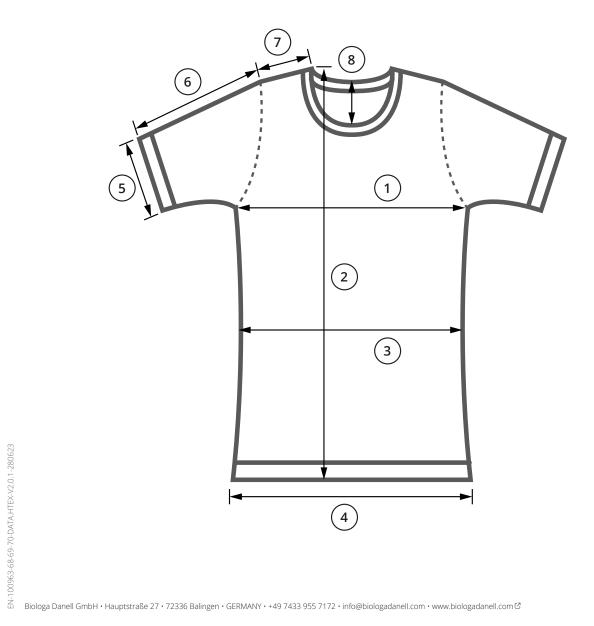
can be used as outerwear or underwear



New Antiwave - Sizes/Dimensions

Woman-Shirts

| No. | Dimensions (in cm) | S 36/38 | M 40/42 | L 44/46 | XL 48/50 | Tol ± |
|-----|--------------------|------------|------------|------------|-------------|-------|
| 1. | Bust | 43 | 47 | 51 | 54 | 3 % |
| 2. | Total length | 63 | 63 | 67 | 70 | 3 % |
| 3. | Waist | 39 | 43 | 47 | 50 | 3 % |
| 4. | Seam bottom | 46 | 50 | 54 | 57 | 3 % |
| 5. | Arm width | 14,5 | 15,5 | 16,5 | 17,5 | 3 % |
| 6. | Arm length | 22 | 22 | 22 | 23 | 3 % |
| 7. | Sholder width | 10 | 10 | 10,5 | 11 | 3 % |
| 8. | Neckline | 10 | 10 | 10 | 10 | 3 % |



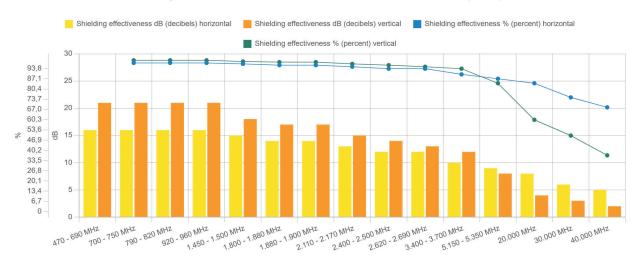
Further information at www.biologadanell.com



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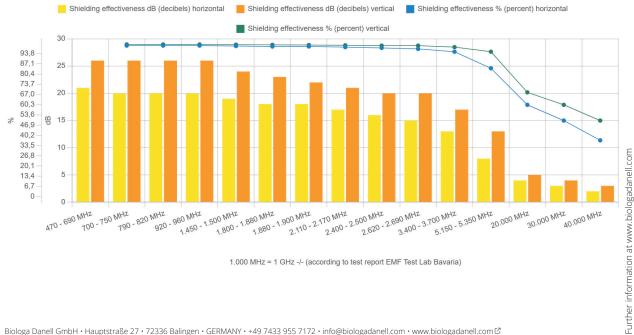
| Туре | MHz | Description |
|-------------------------------|----------------------------------|--|
| DVB-T2 | 470 - 690 | digital video broadcasting – terrestrial, 2nd generation, TV via antenna |
| LTE / 5G wide | 700 - 750 | from 4G, now 5G NR without beamforming / MIMO |
| GSM, LTE | 920 - 960 | from 2G - D1, now 5G NR without beamforming / MIMO |
| GSM, LTE | 1800 - 1880 | from 2G - D2, E network, now 5G NR without beamforming / MIMO |
| DECT | 1880 - 1900 | wireless phone |
| LTE, 5G wide | 2110 - 2170 | from 3G, formerly UTMS, now 5G NR without beamforming / MIMO |
| W-LAN / WiFi 2400 | 2400 - 2500 | wireless LAN |
| 5G fast | 3400 - 3700 | 5G NR - new frequency band with beamforming / MIMO |
| W-LAN / WiFi 5200 | 5150 - 5350 | wireless LAN |
| Shielding values according to | test report: EMF Test Lab Bavari | a |

Shielding effectiveness - Antiwave OC black - unstretched - 470 MHz bis 40.000 MHz (40 GHz)



1.000 MHz = 1 GHz -/- (according to test report EMF Test Lab Bavaria)

Shielding effectiveness - Antiwave OC black - stretched - 470 MHz to 40.000 MHz (40 GHz)



1.000 MHz = 1 GHz -/- (according to test report EMF Test Lab Bavaria)

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Home textiles

Washing instructions incl. symbols (DIN EN ISO 3758:2012)

| Content - Was | ning options | | | |
|------------------------------|---------------------------------------|---------------|--|----------------|
| Detergent Machine washing | | 1_ 2 | Washing test - Biologa Danell shielding tex Further information | tiles 4 |
| Hand wash | | 3 | Frequently asked questions | 12 |
| Applies to the | following products | | | |
| HOME TEXTILES | | | ell, Swiss Shield Evolution, Swiss Shield Daylite, Sunshine 64, Dali, Picasso, New Antiwave | |
| CANOPIES | · · · · · · · · · · · · · · · · · · · | iss Shield Na | N aturell-BD, Swiss Shield Naturell-BU volution-BD, Swiss Shield Evolution-BU | |

Antiwave Women-Shirts, Shorts, Leggings, Antiwave Men-Shirts, Shorts, scarfs, Beanies

Swiss Shield Daylite-BE, Swiss Shield Daylite-BD, Swiss Shield Daylite-BU

Best care

CLOTHING

Detergent

Tested and recommended detergents

Ecover / Wool and delicates detergent

Ingredients:

- 5-15 %: Anionic surfactants
- < 5 % Non-ionic surfactants
- Soap
- Fragrances Limonene
- Preservatives
- 2-Brom-2-Nitropropan-1,3-Diol
- Water
- · Table salt
- · Citric acid

Sodasan / Wool & Fines

Ingredients:

- < 30 % water
- 5-15 % sugar surfactant (non-ionic surfactant)
- Coconut fatty alcohol sulphate (anionic surfactant)
- < 5 % evaporated salt
- · Alcohol (ethanol)
- Vegetable lecithin
- Citrate
- Natural perfume oil
- Limonene
- Geraniol
- Preservative
- 2-Brom-2-Nitropropan-1,3-Diol

Detergent and laundry quantity

Detergent quantity:

- Always use as less detergent as possible. As a rule, umbrella textiles are only slightly dusty.
- Ecover: approx. 20 ml
- Sodasan: approx. 20 ml
 - (Further detergent recommendations:
- Sonett sensitive detergent
- · Sonett olive detergent for wool and silk
- Sonett Olive Detergent for Wool and Silk sensitive

Quantity shielding textiles

- Fill the laundry drum only with shieling materials.
- You will find the max. laundry load in the delicates programme in the instructions for your washing machine. (usually 1.2 - 1.5 kg)

Wash test

Biologa shielding textiles can usually be washed 40 times and more. The screening attenuation, as with all screening textiles, decreases during this process, but the remaining function still fulfils a strong high-frequency reduction (min. 90 %).

You can see the complete washing test in the appendix (page 10).

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The above information corresponds to the current state of development. In any case, they are to be regarded as non-binding, as we have no influence on the washing and the conditions regarding water etc. vary locally. Claims arising from this information are therefore excluded. The same applies to the commercial and technical advice and information provided free of charge and without obligation. We therefore recommend that you carry out your own tests to determine whether the product is suitable for the intended use. With the publication of these versions, all previous technical information (leaflets, installation recommendations and other versions intended for similar purposes) become invalid.



Washing machine

Machine washing

Individual steps

M1: 30 °C delicates/wool wash / DO NOT SPIN!

This wash cycle has a particularly gentle mechanical treatment. Reduce the amount of laundry considerably (fill the drum only up to one third). Set the appropriate washing programme.

(Antiwave products 40 °C delicates)

M2: Do not bleach

Bleaching is not possible. Use only bleach-free detergents. If in doubt, try on a concealed area or sample.

M3: Do not tumble dry

The textiles do not tolerate tumble drying.

M4: Do not iron hot

Maximum temperature of the iron soleplate of 110 °C. Also corresponds to the iron temperature level "polyacrylic/polyamide (nylon) /acetate". Do not iron with steam. Iron with a dry intermediate cloth if necessary. Do

M5: Professional cleaning

Dry cleaning is not possible. Do not treat with solvents. Do not use stain removers containing solvents.

No wet cleaning possible.

M6: Natural drying (optional)

Drying on the clothesline in the shade

M7: Natural drying (optional)

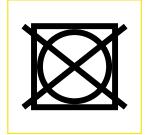
Drying on the clothesline from a dripping wet state in the shade



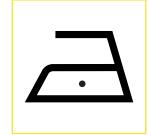
M1: WASH / SPIN



M2: BI FACHING



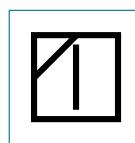
M3: TUMBLER - DRYING



M4: IRONING



M5: Professional cleaning



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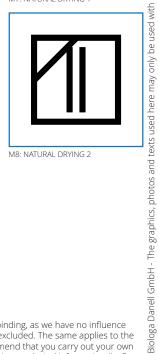
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M7: NATURAL DRYING 1



Pre-drying

See Fig. 1 (next page)



M8: NATURAL DRYING 2

General overview of applicable washing symbols



















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Washbasins, tubs

Hand wash

Individual steps

H1: Hand wash,

Water temperature lukewarm to max. 30°C.

- 1. Fill your washbasin or, depending on the size, your bathtub with lukewarm water.
- 2. Add a teaspoon of detergent (e.g. ecover / Sodasan). Wool detergent, mild detergent without chlorine, without bleach, without optical brighteners. Do not use fabric softener.
- 3. Place the textile in the water. Soaking time is usually not necessary as the textile is usually only slightly dusty and not excessively soiled. If so, then less than one minute.
- 4. Place the textile floating in the water, avoid kneading, wringing, rubbing, strong rubbing and twisting.
- 5. Rinse the textile in clean water. Do not spray or rinse under running water. Repeat the process approx. 2 x
- 6. For pre-drying and subsequent damp hanging, it is recommended to lay the textile on a towel and gently roll it up including the textile. You can also treat the textile as described under H2.
- 7. Dripping wet hanging without the towel technique is also possible as indicated in H3.



H1: Hand wash



H2: Natural drying



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H3: Natural drying Clothesline dripping wet - shade



Fig. 1: Pre-dry in towel - hand wash and machine wash

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