

THERMOACTIVE WEAR
FOR ALL ACTIVITIES

BRUBECK[®]
[protect] thermoactive
flame retardant & antistatic

2016



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+ BRUBECK

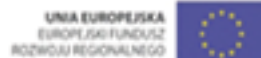
BRUBECK® 3D knitting factory (FILATI) was established in 2005 to develop and manufacture most innovative, functional and thermo-active base layer clothing. We combine best of yarns with specific knitwear structures to obtain fully thermo-active underwear for most extreme of weather conditions.

All our products are made using state-of-the-art Italian machines where we apply our unique know-how based on the scientific research, cooperation with professionals and thorough product tests.

Based in the center of Poland, BRUBECK® production facility is in the heart of an area historically bound to weaving and textile industry in general. We control the quality of our production process, right from the stage of yarn covering to garment manufacturing and finishing.



Filati



BRUBECK
[protect] thermoactive
flame retardant & antistatic



+ Efficient distribution

Our distribution network is a key factor in BRUBECK® success – it helps our products reach stores world-wide on time. Our user-friendly Internet portal is a source of updated information and knowledge.

www.brubeckprotect.com

+ New trends

Following the latest trends and the growing need for good-looking underwear without compromise on thermal comfort and hygiene, BRUBECK® is always introducing more and more innovative products.

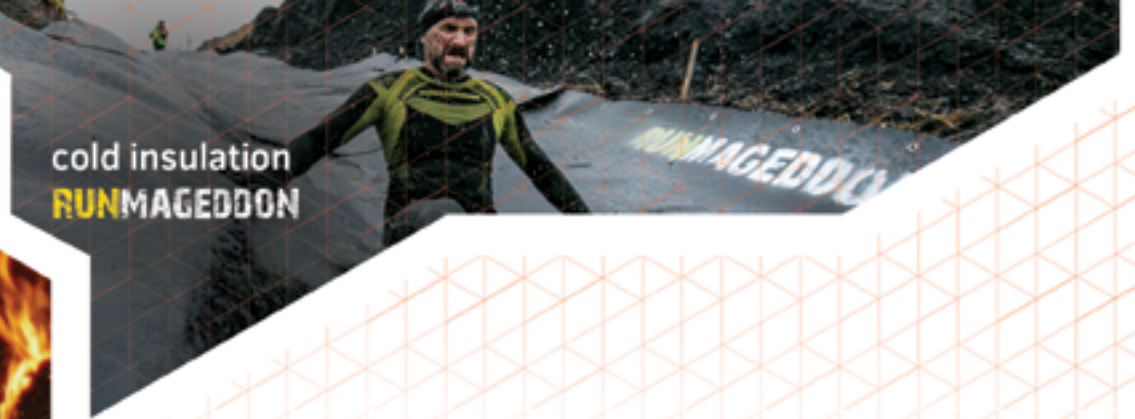
+ Clients range

Our clients range from army, hazardous environment workers, police and special forces. Their comfort and security is our priority, and the fact that they believe in our products is our reason to be proud.





Fire retardant



cold insulation
RUNMAGEDDON



Light and comfortable

Designed to protect

BRUBECK®'s mission is to deliver thermal solutions for every activity. For comfort and cold insulation along with protection from fire and electricity.

Our seamless products are light, functional and state of art technology to support professional sportsmen, special forces or industry workers.

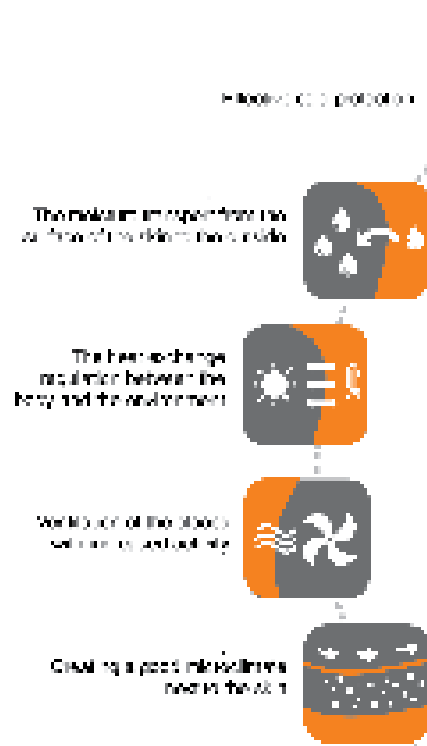
BRUBECK® protect underwear is all you need to protect your body whatever the weather.



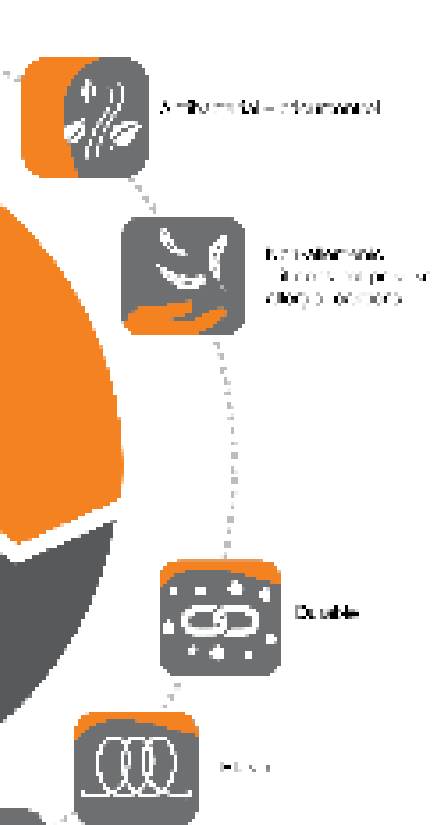
Antistatic fibre

+ Thermoactive clothing properties

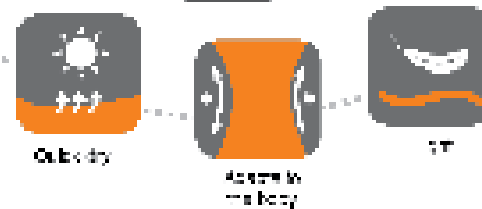
1. THERMOREGULATION PROPERTIES



2. HYGIENIC PROPERTIES

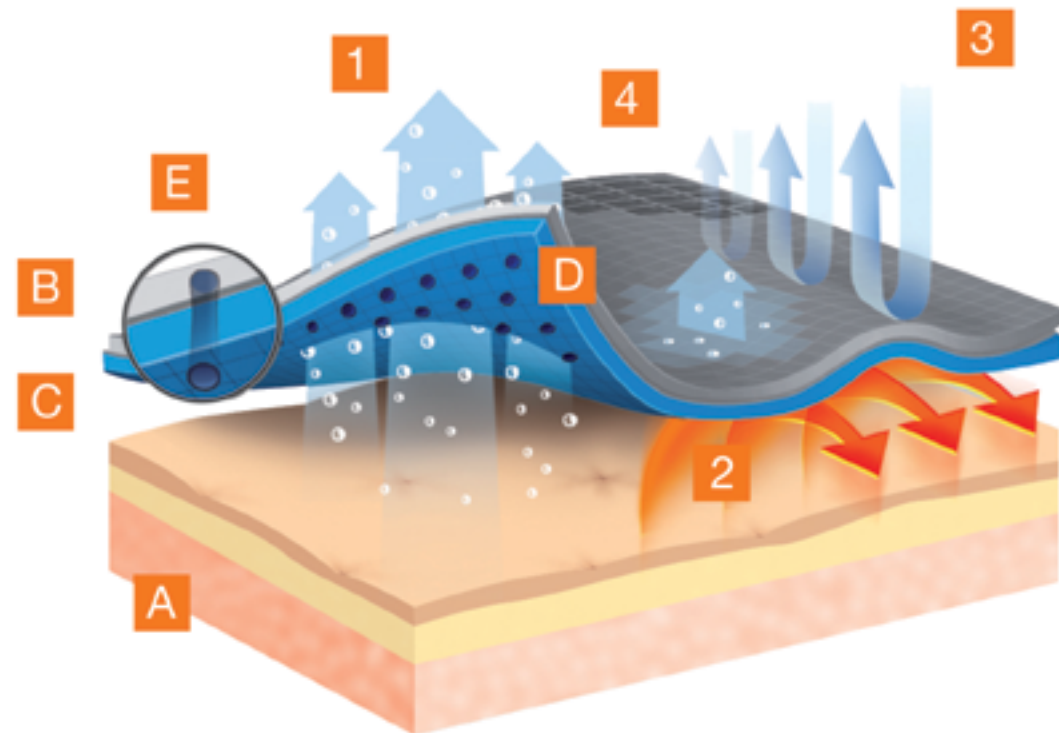


3. UTILITIES PROPERTIES



+ Thermoactive clothing performance

- A** Skin
- B** The external layer (hydrophilic or hygroscopic)
- C** The internal layer (hydrophobic)
- D** Double layer construction of knitwear based on micro-fiber
- E** Capillary (micro-tubules)



- 1** Moisture transport from the skin to the outside (by capillary)
- 2** Protection against heat loss
- 3** Body insulation
- 4** Ventilation places with excessive sweating and emission

+ Functional materials



Protal - CE certified FIRE-RESISTANT and ANTISTATIC fibre created to give workers in environments where there is an added risk of exposure to flames or static discharge, the extra protection they deserve. Meets the properties defined in BS EN ISO 11612:2008 / BS EN 1149-5:2008



Merino Wool - a natural microfiber from top class merino wool, protecting against chilling and overheating of the body. It is characterized by great moisture absorption parameters (up to 33% of its volume) and breathability. Dense, thin microfibers do not cause skin irritation or allergies. The yarn is antibacterial and protects the skin against UV rays.



Cotton - natural cotton microfiber, characterized by great moisture absorption parameters and breathability.



Prolen® Siltex, Prolen® Bodyfresh - modified polypropylene microfiber with antibacterial and antifungal properties.



MicroModal® Air - natural cellulose microfiber from fine beech wood, characterized by a high (up to 50% higher than cotton) level of moisture absorption and being twice as soft as cotton. The yarn is resistant to mechanical damage and multiple washing.



NILIT® Breeze - modified polyamide microfiber with cooling properties and efficient ventilation parameters. The yarn is soft and elastic, it protects the skin against UV rays.



NILIT® INNERGY - modified polyamide microfiber with the addition of a natural mineral that converts the thermal energy of the human body into far infrared radiation. The yarn increases the body temperature by 1.14°C, the lymphatic flow by 8.5% and the blood flow velocity by 9.4%.



3D Technology - the technology of spatial yarn construction, based on the 3D net model. It increases the area of moisture absorption and enhances air circulation inside the structure. Knitwear influences temperature regulation by protecting the body against chilling and overheating.



3D PRO Technology - the technology of spatial yarn construction, based on the improved 3D net model. The porous reinforced structure and modified strands in areas with excessive sweating increases the moisture reception surface and help air circulation inside the structure. Knitwear influences temperature regulation by protecting the body against chilling and overheating.



FULCAT - modified polyester microfiber with high moisture absorption parameters. This functional, delicate yarn is exceptionally light and airy. It guarantees vivid, durable colours.



Supplex® - a blend of very thin, elastic polyamide microfibers ensuring a high level of air and steam permeability. It does not fade or pill.



BTP covering system – a technology of braiding polypropylene fibres around spandex. It guarantees maintaining the assumed parameters of a product and at the same time it keeps spandex away from your skin.



T.M.F. QUALITY CYCLING PADS S.R.L – a cycling pad made of a triple-layered profiled foam that guarantees impact resistance and perfect cushioning. The shape of the pad reflects the anatomical body build for both sexes. The material absorbs moisture and has antibacterial properties.



Schoeller® c_change™ membrane – wind and water tight. Membrane parameters: water gauge height: 20,000mm, moisture vapour transmission rate MVTR: 18,000g/ m2/24h, resistance to evaporative heat transfer RET: <2.

Inherent fire-resistant and antistatic thermo-active base layer range designed for those who work in specific, hard and unfriendly conditions.

Seamless construction and very light weight of 165gsm give perfect body fit, pill and wear resistance as well as protection against overheating and cold.

*Hydrophilic polyamide fibers absorb moisture and heat to isolate your body from weather conditions. The knitwear yarn combination of Protal FR/AS yarn and breathable PA gives best thermal and water vapour resistance ratio.
 (See the Ret & Rct test results in the table below)*

Water vapour resistance and thermal resistance for background materials (if > 5m²Pa/W)

	Specification	Result
Thermal Resistance, R _{ct} (m ² .Pa/W)	$i_{ret} \cdot S \cdot R_{ct}$	0.026
Water Vapour Resistance, R _{et} (M ² .Pa/W)	R _{et}	1.65

Specification	Result	Pass/Fail
$i_{ret} > 0.15$	0.95	PASS

Products that are personal protective equipment in accordance with the provisions of Council Directive 89/686/EWG. The product tested according to PN-EN 31092:1998+ A1:2004 + A1:2013-03.

Protal - partner in FR&AS base layer



EN ISO 11612:2008 A1, B1, C1 EN 1149-5:2008





+

protect

physical work | outdoor
work in extreme conditions | outdoor
Fire retardant, antistatic, lightweight, seamless technology | outdoor

BASE LAYER

LS11290 / Unisex

Sweatshirt

Size: S M L XL XXL XXXL

Composition: 55% PA 45% PE

Weight: 163 gsm

Comfort temperature: +15 / - 5



black

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



LS12020 / LE11270 / Women

Long sleeve shirt / Leggings

Size: S M L XL

Compositon: LS12010: 74% PA 24% PE 2% EL

LE11260: 73% PA 25% PE 2% EL

Comfort temperature: +15 / - 5



black

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



LE10690 / Unisex

Trousers

Size: S M L XL XXL XXXL

Composition: 55% PA 45% PE

Weight: 163 gsm

Comfort temperature: +15 / - 5



black

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



LS12010 / LE11260 / Men

Long sleeve shirt / Leggings

Size: S M L XL XXL

Compositon: LS12010: 74% PA 24% PE 2% EL

LE11260: 73% PA 25% PE 2% EL

Comfort temperature: +15 / - 5



black

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



MERINO WOOL BASE LAYER

LS1 1600

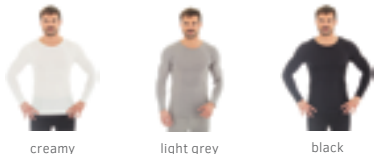
Men's long sleeve shirt

Size: M L XL XXL

Composition: 57% PA 41% MW 2% EL

Weight: 160 gsm

Comfort temperature: +5 / -10



creamy

light grey

black



Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



SS1 1020

Women's short sleeve T-shirt

Size: S M L XL

Composition: 57% PA 41% MW 2% EL

Weight: 160 gsm

Comfort temperature: +5 / -10



creamy

grey

dark jeans

black



Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



LE10930

Men's leggings

Size: S M L XL XXL

Composition: 57% PA 41% MW 2% EL

Weight: 155 gsm

Comfort temperature: +5 / -10



light grey

black



Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



LS1 1610

Women's long sleeve shirt

Size: S M L XL

Composition: 57% PA 41% MW 2% EL

Weight: 160 gsm

Comfort temperature: +5 / -10



creamy

grey

dark jeans

black



Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



ACCESSORIES

KM10270

Balaclava

Size: S/M L/XL

Composition: 55 % PA 45% PE



black

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



KM10370 / Unisex

Merino wool Balaclava

Size: XS S/M L/XL

Composition: 57 % PA 41% MW 2% EL



black

Season: Winter
INDUSTRIAL LAUNDRY APPROVED



SPO

HM10020 / Unisex

Active hat

Size: S/M L/XL

Composition: 62% PA 36% PP 2% EL

Weight: 233 gsm



black

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



HM10080 / Unisex

Woolen beanie cap

Size: S/M L/XL

Composition: 57% PA 41% MW 2% EL



black

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



ACCESSORIES

KM10350 / Unisex

Neck Gaiter

Size: S/M L/XL

Composition: 92% PA 8% EL

Weight: 163 gsm



Season: Winter
INDUSTRIAL LAUNDRY APPROVED



KM10360 / Unisex

Merino wool neck gaiter

Size: S/M L/XL

Composition: 57% PA 41% MW 2% EL

Weight: 163 gsm



SPO

Season: Winter
INDUSTRIAL LAUNDRY APPROVED



GE10010 / Unisex

Thermoactive gloves

Size: XS S/M L/XL

Composition: 42% PA 40% PP 18% EL



Season: Winter, spring/autumn
INDUSTRIAL LAUNDRY APPROVED



SB10010 / Unisex

Arm protectors

Size: S/M L/XL

Composition: 74% PA 24% PE 2% EL



Season: Winter
INDUSTRIAL LAUNDRY APPROVED



SOCKS

BSN002 / Men

Snow Force Light Merino Wool socks

Size: 39-41 42-44 45-47

Composition: 61% MW 15% PP [15% silver ions]
22% PA 2% EL



grey

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



BSN001 / Men

Snow Force Merino Wool socks

Size: 39-41 42-44 45-47

Composition: 68% MW 25% PP [20% silver ions]
5% PA 2% EL



charcoal

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



BSN002 / Women

Snow Force Light Merino Wool socks

Size: 36-38 39-41

Composition: 61% MW 15% PP [15% silver ions]
22% PA 2% EL



grey

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



BSN001 / Women

Snow Force Merino Wool socks

Size: 36-38 39-41

Composition: 68% MW 25% PP [20% silver ions]
5% PA 2% EL



beige

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



SOCKS

BSK001 / Men

Ski Force Merino Wool socks

Size: 39-41 42-44 45-47

Composition: 60% MW 33% PP[22% silver ions]
5% PA 2% EL



charcoal

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



BTR002 / Men

Thermoactive socks

Size: 39-41 42-44 45-47

Composition: 51% MW 26% PA 21% PP
[18% silver ions] 2% EL



charcoal

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



BSK001 / Women

Ski Force Merino Wool socks

Size: 36-38 39-41

Composition: 60% MW 33% PP[22% silver ions]
5% PA 2% EL



cappuccino

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



BHP001 / Unisex

Thermoactive socks

Size: 39-41 42-44 45-47

Composition: 55% PA 45% PE



black

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



FR & AS BASE LAYER

LS11780

Sweatshirt

Size: S M L XL XXL XXXL

Composition: 52% MAC 26% C 19% PA
2% Anitistatic fibre 1% EL

Weight: 165 gsm



grey

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



EN ISO 11612:2008 A1, B1, C1

EN 1149-5:2008

SS10980

T-shirt

Size: XS S M L XL XXL XXXL

Composition: 52% MAC 26% C 19% PA
2% Anitistatic fibre 1% EL

Weight: 165 gsm



grey

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



EN ISO 11612:2008 A1, B1, C1

EN 1149-5:2008

LE11050

Trousers

Size: S M L XL XXL XXXL

Composition: 52% MAC 26% C 19% PA
2% Anitistatic fibre 1% EL

Weight: 165 gsm



grey

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



EN ISO 11612:2008 A1, B1, C1

EN 1149-5:2008

KM10230

Double-layer Balaclava

Size: S/M L/XL

Composition: 51% MAC 32% C 15% PE
2% Anitistatic fibre

Weight: 330 gsm



grey

Season: all year-round use
INDUSTRIAL LAUNDRY APPROVED



EN ISO 11612:2008 A1, B1, C1

EN 1149-5:2008

FR & AS BASE LAYER

KM10220

Neck gaiter



Size: S/M L/XL

Composition: 52% MAC 26% C 19% PA
2% Anitistatic fibre 1% EL

Weight: 165 gsm



grey

Season: all year-round use
Industrial laundry approved



EN ISO 11612:2008 A1, B1, C1






EN 1149-5:2008



PROTECT

BRUBECK
[protect] thermoactive
flame retardant & antistatic

+ AFTERCARE INFORMATION

-  1. Do not boil, wash in 40 degrees Celcius. Best protection up to 5 washes.
-  2. Do not bleach, do not use soap based products - only detergents, do not use softeners. Dirty clothes may lead to reduction in protection.
-  3. Do not tumble dry.
-  4. Do not iron.
-  5. Do not dry clean.
6. Always store in dry, clean conditions.
7. Do not store in places subject to directly strong sunlight.

+ SIZES AND MEASUREMENTS



SIZE [cm]	S	M	L	XL	XXL
A CHEST	84-92	88-96	94-100	100-108	108-114
B HEIGHT	156-170	162-176	166-182	170-188	174-194
C WAIST	64-80	70-86	76-92	82-98	88-104



SIZE [cm]	S/M	L/XL
D HEADLINE	55-58	59-62
E NECK	30	32,5

Fitting: fit according to chest size and height. Garments should not be tight or too loose for best thermal insulation performance. All base layer garments should be worn with outer garments of equal or greater protection. The dissipative clothing shall permanently cover all non complying materials during normal use (bending and movements.)

Wearing of garments that do not comply with EN 11612 or EN 1149-3 over the top will reduce the garments protective performance.



FLAME
RETARDANT



ANTISTATIC



SECOND
SKIN



QUICK
ABSORPTION



QUICK
DRY



HYDROPHILIC



SEAMLESS



BACTERIOSTATIC



DOUBLE
LAYER

 User information sheet

+ Branding

In case of private label branding we can use Heat Transfers on FR/AS as well as Thermal PA/PE and Cotton based garments. The printing allows any Pantone colour for exact replication of your company logo or brand. The transfers are pre-ordered in bulk quantities and can be quickly applied to your garments before dispatch from your PPE provider.

+ Find us at

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United Kingdom



[linkedin.com/company/brubeck-uk](https://www.linkedin.com/company/brubeck-uk)

+ your bodyguard

BRUBECK
[protect] thermoactive
flame retardant & antistatic



BRUBECK[®]

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flame retardant & antistatic

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