



COOLING VEST

COOLING VEST

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YOU'RE SAFE WITH US

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We're on a mission: To make sure that our customers come home safely to their family and loved ones, every day. This is our reason for being and what drives us to go to work each morning.

We offer PPE and safety solutions for waterjetting and high pressure cleaning, as well as cooling vests, and clothing against radiant heat and molten metals.

It's no coincidence that we're the leading company in protective clothing and equipment. Every single product is born out of necessity, developed in close cooperation with our end users.

Over the years, we have developed a culture of continuous innovation, where methods, concepts, and products are developed and refined on an ongoing basis. We have evolved into an innovative business partner who, through impeccable service and expertise, makes personal protective equipment smarter and the world a little safer.

Our motto is "Saving Lives". This is not only our duty, but it also makes us feel good. It would be difficult to find anything more meaningful to spend our time doing.

EFFECTIVE AND GENTLE COOLING

Our Cooling Vest helps the user to reduce body temperature rise at work in hot environments or during heavy physical work.

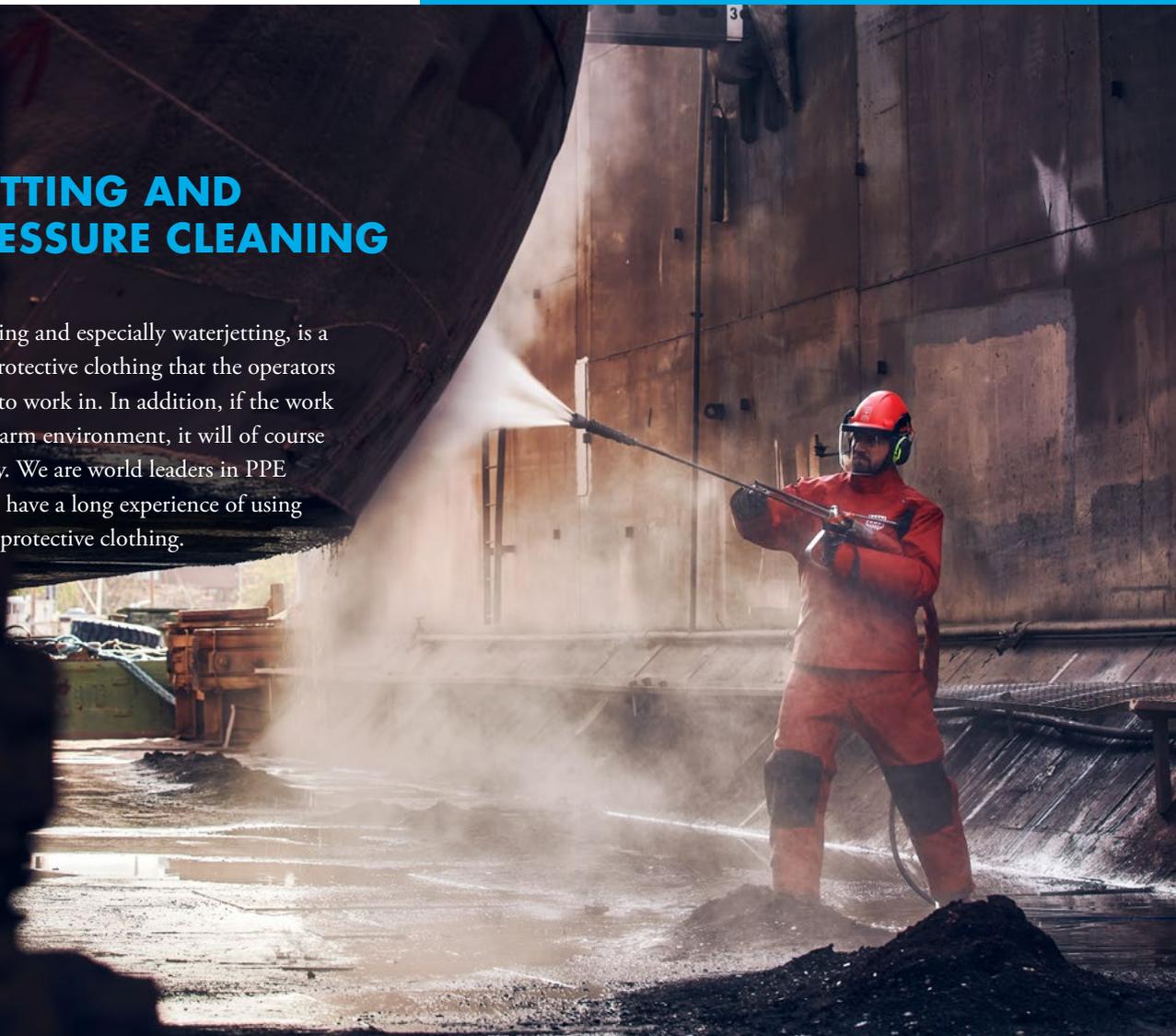
The unique technology absorbs heat from the body instead of shocking the body with cold, as with an ice vest. A major advantage with our Cooling Vest is that it keeps the body at the correct temperature by providing effective and gentle cooling just when the body needs it – and without the user feeling cold.

INDUSTRY WORKERS

Our Cooling Vest is used in many industries, for example under high-heat clothing at steel mills, but also in industries where the work or the environment requires the body to cool down.

WATERJETTING AND HIGH PRESSURE CLEANING

High pressure cleaning and especially waterjetting, is a heavy job and the protective clothing that the operators wear is often warm to work in. In addition, if the work is carried out in a warm environment, it will of course be even more sweaty. We are world leaders in PPE for waterjetting and have a long experience of using cooling vests under protective clothing.



ATHLETES

Athletes know the benefits of keeping the body temperature at the right level to be able to perform at their best. For example, our Cooling Vest are used in motorsports for both pre and post race cooling.



MULTIPLE SCLEROSIS

People with neurological diseases like MS are often heat sensitive. Our Cooling Vest can improve the ability to perform activities of daily living for people with Dravet syndrome, MS, and similar diseases.



PUBLIC SAFETY PERSONNEL

Our Cooling Vest make public safety personnel feel comfortable and able to work longer in warm environments. The benefit for firefighters may seem obvious, but our Cooling Vest also help police and paramedics through their working day.



WHY USE OUR COOLING VEST?

- Keep your body cool and comfortable.
- Perform at your best all the time.
- Reduce the risk of heat stress. Recovering from heat stress can take up to 24 hours.
- Reduce dehydration.
- You want to feel good.

BASED ON A UNIQUE METHOD

The technology behind the effective yet gentle cooling, is a special energy element called Temptech®. The Temptech® C28 element has a 28 °C / 82 °F transition temperature. When the element starts to melt (temperatures above 28 °C / 82 °F) it absorb heat from the body. The heat absorption continues until the element become soft and jelly-like.

Everybody knows that ice melts at temperatures above 0 °C / 32 °F. But not everybody knows that the moment of transition from solid to liquid uses up to 50 times more energy compared to a rise of 1 °C / 33,8 °F when an object already is in either liquid or solid. Through our unique technology we utilize this fact of nature to store energy, absorb excessive heat and keep the body cool and comfortable.

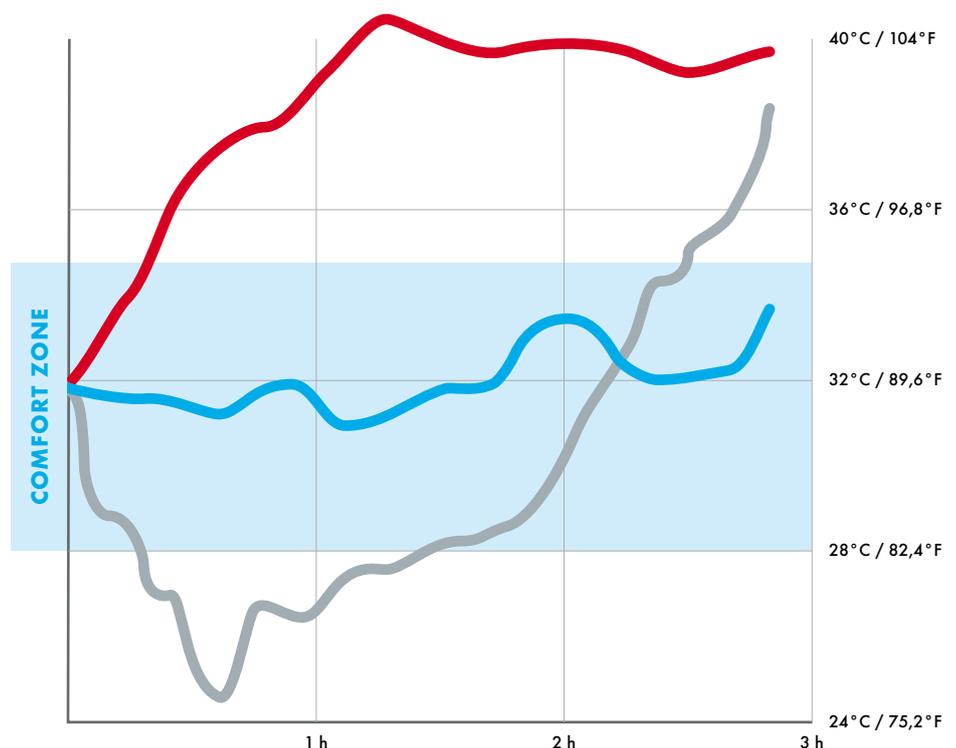
PERFORM AT YOUR BEST – STAY IN THE COMFORT ZONE LONGER

Our technology, which absorbs heat from the body instead of cooling it down with cold, will keep you in the comfort zone for a longer period. The comfort zone is where your body maintains a temperature that lets you feel good and perform at your best.

DURABILITY

- 90 minutes use in 60 °C / 140 °F
- 4 hours use in 45 °C / 113 °F

- WITHOUT VEST
- TST COOLING VEST
- ICE VEST





FOR BEST RESULTS

- Cooling Vest should be worn close to the body, preferably with a functional t-shirt under.
- Make sure you have the correct size.
- Adjust the hooks & loops (if available) to tighten the vest properly.
- Wear a garment over the vest to avoid exposing the vest to direct sunlight.
- Use a cooler bag during transport to maximize durability.

RECHARGES WITHOUT AN EXTERNAL ENERGY SOURCE

To recharge the Temptech® elements, simply store the Cooling Vest at normal room temperature. No external energy source is needed! In lower temperatures, charging is faster.



**IN A FREEZER
OR IN ICED WATER**



IN 8 °C / 46 °F



IN 22 °C / 72 °F



ULTRA

PREMIUM CHOICE

The perfect choice when you want your own, personalised premium vest. Has many adaptable features to fit your body.

Ultra is our most advanced vest that provides effective heat absorption with lots of features supporting function and comfort. The vest fits tightly to the body for good compliance. It is our most discreet model and can be used, for example, under a t-shirt. The inside is soft and comfortable thanks to the lining.

The vest is made of a polypropylene fabric, with a powerful moisture management transferring up to 40 times more moisture, compared to standard polyester. It also dries up to three times faster than similar fabrics. High elasticity provides comfort and a snug fit against the body, increasing moisture wicking.

Ultra offers a wide range of adjustments: elastics at the sides, for excellent fit. Special extensions at the sides makes the vest in L/2XL further adaptable to fit exactly to different bodies. Pocket on the inside at the back where elastic thread that is not used is placed. Permanent TermoFresh antibacterial treatment of the lining keeps the garment odour-free.

- CE Regulation (EU) 2016/425

SIZES	ENERGY ELEMENTS	WEIGHT	ART. NO.
XS/M	17	1.7 kg	3050P28 3815
L/2XL	21	2.1 kg	3050P28 3810



Extensions at the sides on size L/2XL for adaptability.



Elastics at the sides for excellent fit.





MULTI

BEST
SELLER

The Multi vest is used in various industrial applications.

Multi has 20 Temptech® elements which provide effective heat absorption. The front is adjustable through a wide hooks & loops fastening. Stretch fabric on the sides makes for a good fit.

- 20 energy elements
- CE Regulation (EU) 2016/425

MULTI FLAME RETARDANT

A good choice for industrial environments with a risk of fire.

Multi Flame Retardant is made with a multinorm, permanently fire resistant fabric; Marko®. The fabric is designed and tested to protect against fire, in accordance with EN ISO 11612.

Multi Flame Retardant has 20 Temptech® elements which provide effective heat absorption. The front is adjustable through a wide hooks & loops fastening. Stretch fabric on the sides makes for a good fit.

- 20 energy elements
- CE Regulation (EU) 2016/425

SIZES	WEIGHT	ART. NO.
S/M-4XL/5XL	2.1 kg	3010P28 3000

SIZES	WEIGHT	ART. NO.
S/M-4XL/5XL	2.1 kg	3010P28 C133



FLEXI

High flexibility in one size fits all. Perfect when several users share a vest.

The Flexi vest has 16 Temptech® elements which absorb excessive heat. Flexi is designed to be smooth and easy to put on. It closes with hooks & loops fasteners at the shoulders and sides. Tight fit to the body, thanks to elastic fastening around the waist.

- 16 energy elements
- CE Regulation (EU) 2016/425

SIZES	WEIGHT	ART. NO.
ONE SIZE - XS-XL	1.6 kg	3000P28 3000

FLEXI FIRE RESISTANT

A flexible vest that works well in environments where there is a risk of fire. Often used in motor sports, for pre and post race cooling.

Flexi Fire-resistant is made with Nomex®, a fabric that provides ultimate protection against heat and flame. The fabric was designed to meet the needs of workers in the oil & gas, petrochemical, utilities, manufacturing and transportation industries. The fabric is tested to protect against fire, in accordance with EN ISO 15025.

The Flexi vest has 16 Temptech® elements which absorb excessive heat. Flexi is designed to be smooth and easy to put on. It closes with hooks & loops fasteners at the shoulders and sides. Tight fit to the body, thanks to elastic fastening around the waist.

- 16 energy elements
- CE Regulation (EU) 2016/425

SIZES	WEIGHT	ART. NO.
ONE SIZE - XS-XL	1.6 kg	3000P28 C130

TEMPTECH® ELEMENTS

Temptech® C28 is a salt hydrate based Phase Change Material with a transition temperature of 28 °C / 82 °F. Temptech® C28 is delivered in aluminium foil elements. Its main components are sodium sulphate, water and additives. Buy a second set of elements and you are ready for the afternoon shift.



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TECHNICAL INFO

MATERIALS

ULTRA

Outer and inner material: Polypropylen / Polyester

MULTI

Outer and inner material: Polyester

MULTI FLAME RETARDANT

Outer material: Marko® – Modacryl, cotton, polyamide, antistatic fiber

Inner material: Plusmark® – Modacryl, cotton, antistatic fiber

FLEXI

Outer and inner material: Polyester

FLEXI FIRE-RESISTANT

Outer and inner material: Nomex® – Meta-Aramid

TEMPTECH® ELEMENTS

Inner: A blend of salts

Cover: Aluminium

Aggregation change temperature: 28 °C / 82 °F

CARE

The Temptech® elements contains a salt mixture and has an aluminum foil cover.

The elements are guaranteed to last more than 1 000 cycles if properly maintained.

Recharge and store the vest in temperatures below 24 °C / 75 °F. If the Temptech® elements are soft, the vest shall be stored horizontally.

It is time to buy new elements when they no longer become soft during use.

DEFORMED ENERGY ELEMENTS

If the energy elements get deformed, but are still intact, putting them in a hot cupboard or water in 35 °C / 95 °F can reshape them. When they soften, place them on a flat surface. Flatten them with your hands so they get evenly thick. Let them harden.

WASHING INSTRUCTIONS

In washing, the energy elements should be taken out of their pockets. The vest should be washed in 40 °C and dried in a drying cabinet or in a well-ventilated room. Do not dry in a tumble dryer.



REMOVE ENERGY ELEMENTS BEFORE WASH



MACHINE WASH AT 40°



DO NOT TUMBLE DRY

SAVING LIVES THROUGH

Our promise to our customers and their families is to save lives. With this promise, striving for a sustainable future is a priority for us, and we continuously work to make the world a little safer and a little better to live in.

Un global goals

In 2015, the United Nations adopted 17 sustainable development goals to be reached by 2030. We are committed to play our part. Some of the goals are particularly relevant to us: Protect labour rights and promote safe working environments, Clean water & sanitation and Responsible consumption & production.

Sustainability by being the best

We pride ourselves with being the best in the industry and we work hard to find new techniques and materials to make our products safer, more comfortable to wear and more sustainable to produce. We participate in a variety of networks to share our knowledge of technical textiles.

Local manufacturing

We manufacture most of our products in Sweden and Latvia, and ensure our factories have fair working conditions and a responsible water management. The short distance between us and our manufacturers reduces unnecessary transports.

Certifications

All our PPE products are CE-certified in accordance with the PPE Regulation; the European legislation for Personal Protective Equipment. TST Sweden are certified according to ISO 14001 environmental management and ISO 9001 for quality management. We work systematically to improve our products and reduce our climate impact.

Limiting our chemical footprint

We follow the REACH regulation which concerns the registration, evaluation, authorization, and restriction of chemical substances. And also constantly strive to reduce our use of chemicals, always opting for better ones.

Safety academy

Through our promise, "Saving Lives", we are committed to ensure that our customers come home to their family and loved ones every day. Therefore educating the world about using correct protection is a task we take very seriously. Our ambition is to spread knowledge to employers and workers all around the world.

Every little thing helps

Whether it's drinking organic fairtrade coffee at the office or driving electric company cars, planting trees or supporting children with cancer, each employee at TST Sweden do what they can to make the world a little bit better!

HIGH SUSTAINABILITY



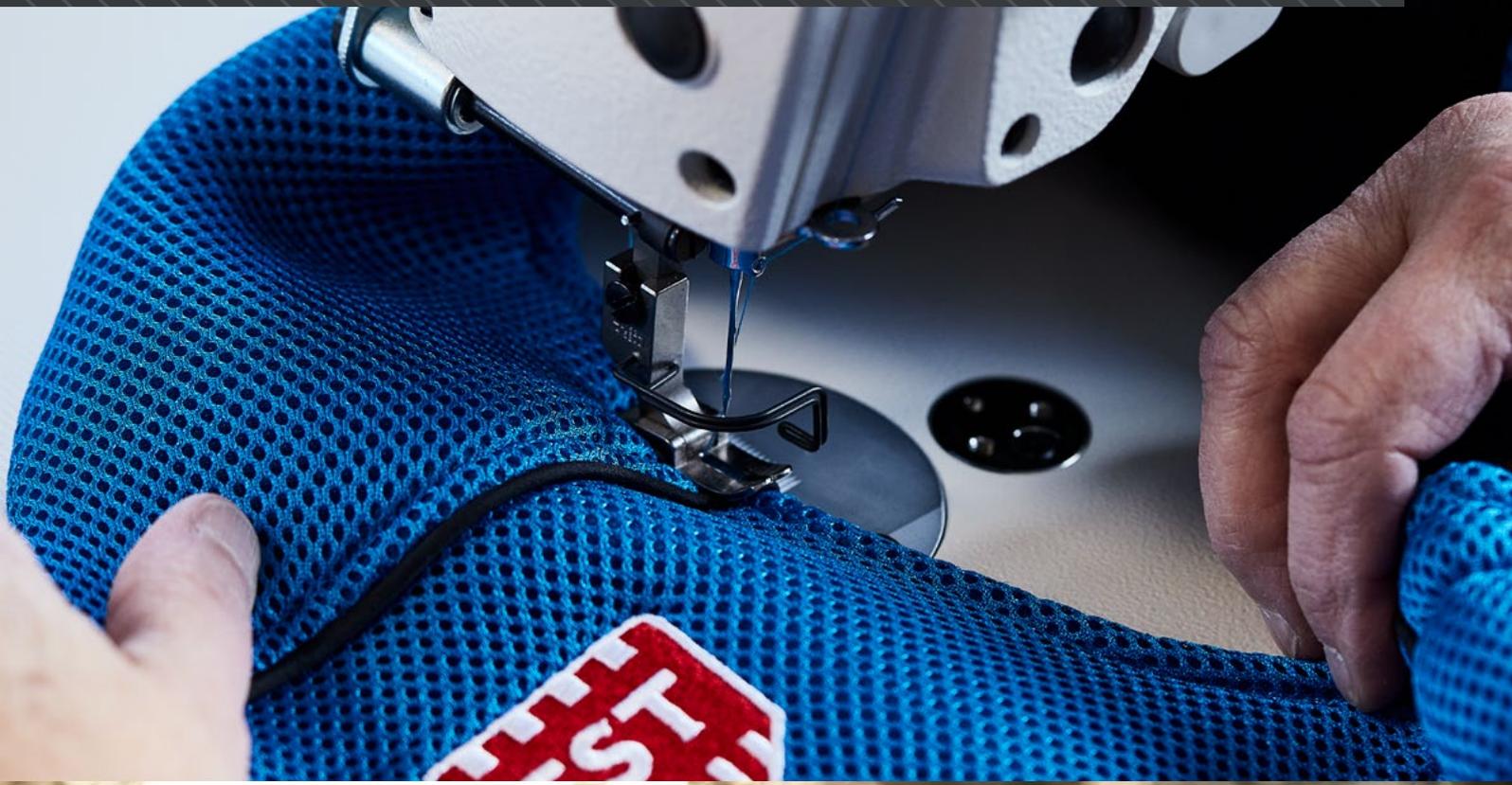
THE DIFFERENCE I

We founded our company in the region of Sjuhäradsbygden, in the south-west of Sweden, and we are still working from here today. Sjuhäradsbygden has been the home of textiles production for over a century – and still is today. Several of Sweden's biggest fashion and textiles companies are based in the region. There are many benefits of being here. Invaluable experience and sound knowledge of the textiles industry converge here in a single place. What's more, the collaboration between companies is also excellent. If you work with products

that are designed to save lives, you don't want to leave anything to chance. We use local suppliers that we know well, and we work with RISE Research Institutes of Sweden and the Swedish School of Textiles in Borås. We develop our products ourselves and production is local, which allows us to better control the entire chain. All of this helps us to be innovative and at the forefront of development, which in turn ensures that we can uphold the highest of standards and offer the best functionality – down to the smallest detail.



S IN THE DETAILS



OUR VALUES

TRUSTWORTHY

Through our actions and our products we shall instill a high level of confidence in our customers, suppliers and business partners.

DEVELOPMENTAL

By continuously developing our products and working on innovative new solutions, we will bring products to the market that are of the highest class. Collaborations with universities and suppliers at the forefront of textile materials and treatments are a matter of course for us.

LONG-TERM

In our internal and external relationships, we shall be considered a long-term partner. Our products shall be developed and marketed with a long-term profile, where we want to see customers and suppliers staying with us year after year.

WE ARE

SMOOTH
AMBITIOUS
FUTURISTIC
ENERGETIC

=

S•A•F•E

SO ARE YOU





SAVING LIVES

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