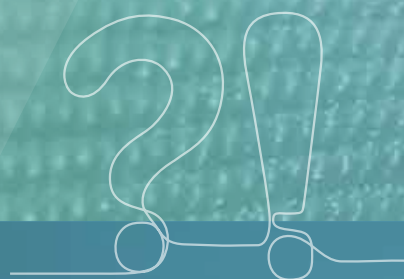
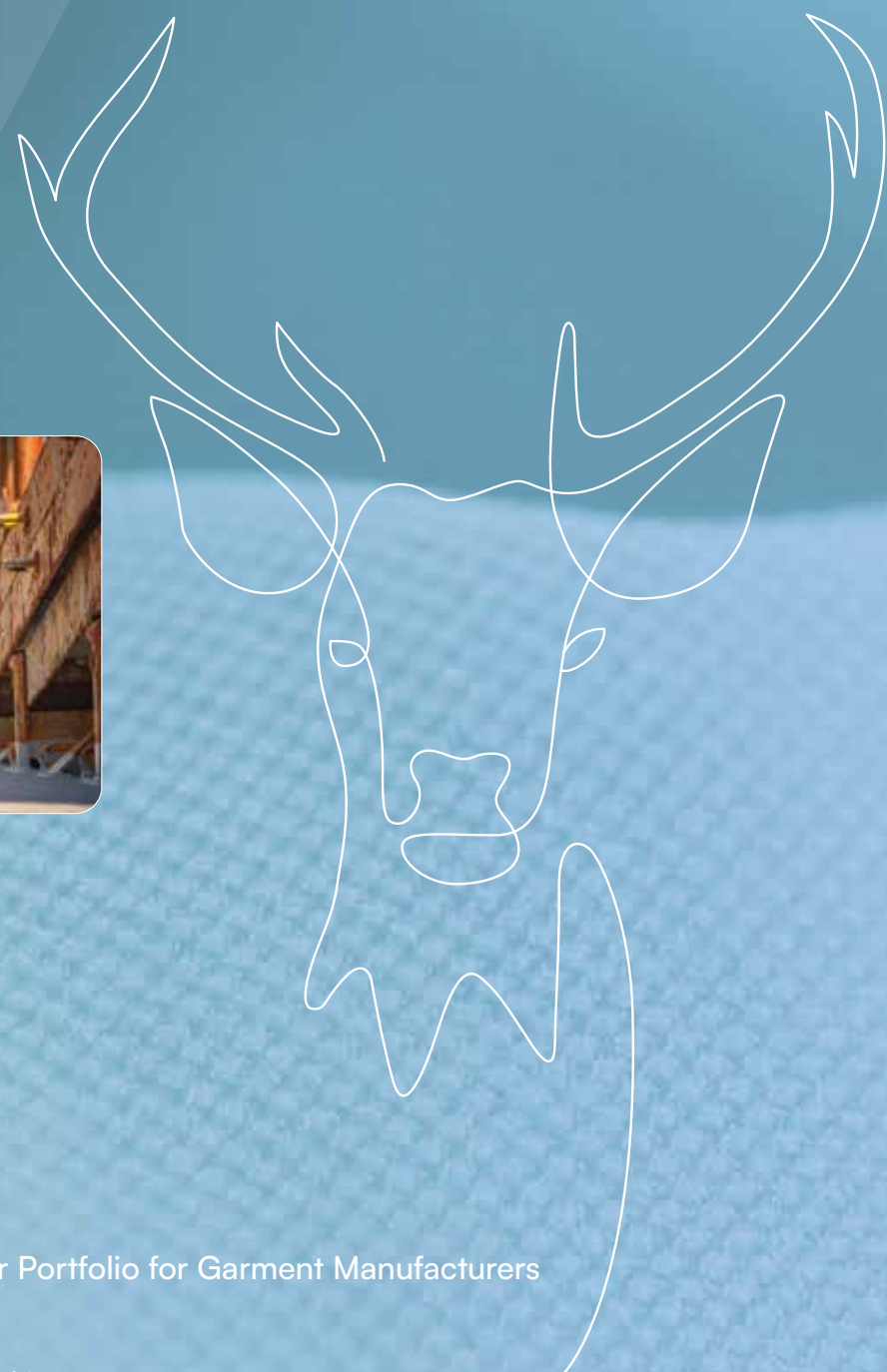


INDUSTRY & GARMENT MANUFACTURERS



THERMOTEX 
MARKING THE FUTURE

**PPE | Workwear | Sports & Fashion
Contract Laundry | Footwear**



Textile Labeling is a Matter of Trust

Successful textile management requires flawless textile labeling. For more than 30 years, THERMOTEX has been offering high-quality machines, optimal consumables, and outstanding services in this field. With experience, know-how, and consistent quality management according to DIN ISO 9001, THERMOTEX has secured a leading position in the European market.

Whether industrial or contract laundry, personal protective equipment (PPE), footwear, workwear, fashion or sportswear — THERMOTEX provides you with complete system solutions, including personal on-site consultation.

04 Our Portfolio for Garment Manufacturers

06 Marking

13 Finishing

24 Identification & RFID Technology

30 Heat-Sealing and Printing

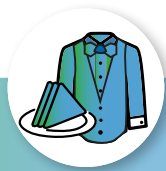
YOUR OVERVIEW OF PRODUCTS FOR TEXTILE LABELING

OUR PORTFOLIO FOR INDUSTRY & GARMENT MANUFACTURERS

Products intended exclu-
sively for specific groups
of garment manufacturers
are highlighted with the
corresponding icons on the
following pages.

Welcome to our range for Garment Manufacturers

At THERMOTEX, we make sure you always have exactly what you need for your daily work — neatly arranged, clearly struc-
tured, and easy to find. With page numbers and intuitive sym-
bols, you can navigate directly to the right section in no time.
We wish you lots of enjoyment while browsing and discovering!



CONTRACT LAUNDRY

MARKING

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 - Ecoflex (p. 8)
- ▶ Woven Labels (p. 8)
- ▶ CT 2009 (p. 9)
- ▶ Heat-Seal Ink Ribbon (p. 12)

IDENTIFICATION & RFID TECHNOLOGY

- ▶ RFID Technology:
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PPE

PERSONAL PROTECTIVE EQUIPMENT

MARKING

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WORKWEAR

MARKING

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FINISHING

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- ▶ Barcodes (p. 23)
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SPORTS & FASHION

MARKING

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 - NT, PS, PT, (p. 7)
 - Ecoflex (p. 8)
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FINISHING

- ▶ Ecoflex (p. 8)
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FOOTWEAR

MARKING

- ▶ NT-Label (p. 7)
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FINISHING

- ▶ Ecoflex (p. 8)
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IDENTIFICATION & RFID TECHNOLOGY

- ▶ UHF Adhesive Labels (p. 28)

CARE LABELING

Labels for Thermal Transfer Printing

THERMOTEX offers textile labels for every need: whether for small nursing homes, public institutions, or hospitals, as well as for large laundries, garment manufacturers, and textile producers. We produce the labels in your desired format: continuous rolls, pre-cut, self-adhesive, coloured, printed or unprinted — for sewing in or heat-sealing. The key to a high-quality, wash-resistant print image lies in the precise coordination of printer, labeling tape, and ribbon.

Further Information:



Care labels for sewing in



Polyester satin tape



Polyester taffeta tape



Nylon taffeta tape

POLYESTER SATIN TAPE (PS)

Available in various qualities and colours

- ▶ Soft quality
- ▶ Tested for harmful substances according to Oeko-Tex Standard 100

Polyester satin tapes, available in various qualities and colours, are used to produce wash-resistant care labels for sewing in.



POLYESTER TAFFETA TAPE (PT)

Wash-resistant, for sewing in

- ▶ Double-sided printable tapes
- ▶ Firm, smooth surface
- ▶ PT01, PT09: Tested for harmful substances according to Oeko-Tex Standard 100

Polyester taffeta tapes are also used to produce wash-resistant care labels for sewing in.



NYLON TAFFETA TAPE (NT)

Available in various qualities

- ▶ Thin, smooth surface
- ▶ NT01 + NT41P: Tested for harmful substances according to Oeko-Tex Standard 100
- ▶ NT08: Available with coloured side stripe on request

Nylon taffeta tapes are also suitable for producing wash-resistant care labels for sewing in.



Labeling and printing ribbons for the clothing and garment industry

Perfect print results, maximum wash resistance, and outstanding abrasion durability — that's what our ribbons and labeling tapes offer when combined with the right printing system. Especially in the garment sector, labels must meet high standards. On request, we also supply pre-printed care labels ready for sewing in!



ECOFLEX

For PT-Compact 2

- ▶ Very fast transfer (starting from 2 seconds)
- ▶ Excellent quality at a fair price
- ▶ Ecoflex emblems enable extremely fast and high-quality textile labeling
- ▶ Custom-made designs such as logos or care symbols
- ▶ Multicolour, fine, and cut-out designs possible
- ▶ Ideal for use in the garment industry, for workwear manufacturers, and for industrial production of other textile items such as shoes, gloves, lingerie, T-shirts, swimwear, shoe soles, and much more
- ▶ Not suitable for industrial ironing
- ▶ Wash resistance up to 60 °C
- ▶ High-quality screen printing
- ▶ Suitable for dark textiles



For high volumes and finer designs

Custom and high-quality Printing on textiles requires specialized professional equipment and supplies. The results speak for themselves. Ideal for use in the garment industry.



WOVEN LABELS

Our woven labels are highly durable and come in a variety of qualities — including polyester, taffeta, satin, and more.

- ▶ For sewing in
- ▶ Individually cut
- ▶ Custom sizes tailored to the application

Brand label in the collar of a shirt



Manufacturer label in the T-shirt



PPE

CT 2009

Soft, stretchable



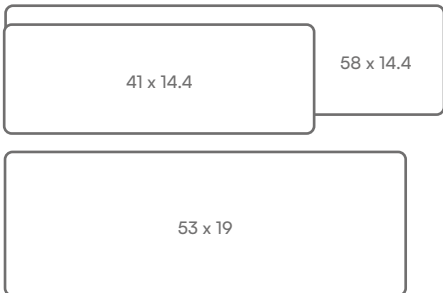
- ▶ Not ironable
- ▶ Without weave
- ▶ Non-transparent, thin
- ▶ Highly wash-resistant
- ▶ Colour: pure white
- ▶ Pre-cut, self-adhesive



Labeling tag inside the shoe

CONTINUOUS ROLLS in widths:
20 mm, 30 mm, 40 mm, 50 mm, 60 mm,
80 mm, 88 mm (further widths available on request)

PRE-CUT FIXTEXX FORMATS in mm
Roll length 12,5 m, 25 m, 50 m



Label tray with identification labels

CT 4000

For PPE clothing

- ▶ Flame-retardant
- ▶ Very strong, stable
- ▶ Highly wash-resistant
- ▶ Colour: warm white
- ▶ Roll length: 50 m (continuous)

PPE

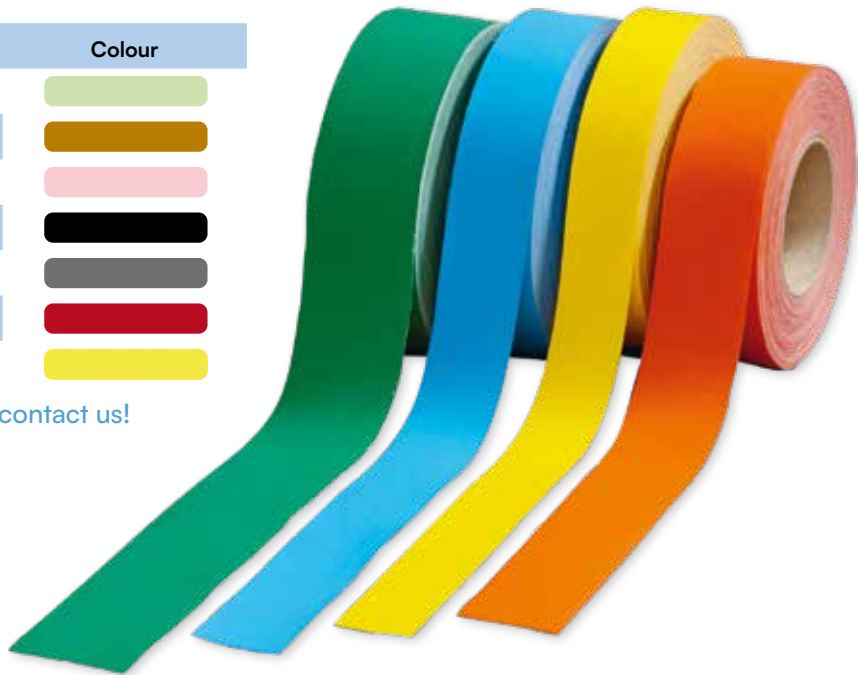


SAFETY BELT TAPE 2006 (GB)

Resistant to weathering and abrasion

Item	Colour	Item	Colour
GB 2006		GB 2016	
GB 2010		GB 2017	
GB 2011		GB 2018	
GB 2012		GB 2019	
GB 2013		GB 2020	
GB 2014		GB 2021	
GB 2015		GB 2022	

Available in various widths. Feel free to contact us!



THERMOTEX safety belt tape is specially designed for labeling tensioning straps. The durable and robust tape is highly resistant to UV light, weathering, and abrasion.

Item	CT Tape	Colour
GB 2006	CT 2006	
GB 2010	CT 2010	
GB 2011	CT 2011	
GB 2012	CT 2012	
GB 2013	CT 2013	
GB 2014	CT 2014	
GB 2015	CT 2015	
GB 2016	CT 2016	
GB 2017	CT 2017	
GB 2018	CT 2018	
GB 2019	CT 2019	
GB 2020	CT 2020	
GB 2021	CT 2021	
GB 2022	CT 2022	

CT TAPE (COLOURED)

Label tape for heat-sealing



- ▶ Very robust
- ▶ Highly industrial-wash-resistant
- ▶ Not suitable for industrial ironer
- ▶ With special-coated surface
- ▶ For heat-sealing

PPE



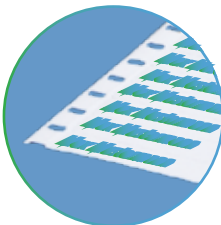
PPE



CT 2026

Firm, durable

- ▶ Not suitable for industrial ironer
- ▶ Highly industrial-wash-resistant
- ▶ Colour: white



PPE

Also available as self-adhesive Fixtexx 2026!

CONTINUOUS ROLLS in widths:
40 mm, 50 mm, 60 mm, 80 mm, 88 mm
(further widths available on request)

PRE-CUT FORMAT
Roll length 50 m

Format	Number of labels	Item No.
80 x 38 mm	ca. 1,310	CV2026-80X38
80 x 45 mm	ca. 1,110	CV2026-80X45
82 x 25 mm	ca. 2,000	CV2026-82X25
76 x 25 mm	ca. 2,000	CV2026-76X25



Left: Name label
The CT 2026 — easily printable by yourself

NAME EMBLEMS

Different versions and small quantities possible

PPE



Available to order!



Version	Printing	Application	Extra
Professional name labels	Single-colour black	For heat-sealing	—
Tex name labels	All colours printable	For heat-sealing	Suitable for industrial washing
Tex low-temperature name labels	All colours printable	For heat-sealing	Patchable from 130 °C, not suitable for industrial washing
Fixtexx name labels	Single-colour black	For heat-sealing	Self-adhesive, also available with coloured border
Plotter name labels	Various standard colours	For heat-sealing	Especially suitable for freestanding name lettering
Embroidered name labels	Various colours available	For heat-sealing / sewing on	Yarn colour according to colour chart
Sublimation name labels	All colours possible	For heat-sealing / sewing on	With or without embroidered border
FTC name labels	In 8 standard colours	For heat-sealing	Especially suitable for freestanding name lettering and industrial washing, flame-retardant

HEAT-SEAL INK RIBBONS

For PT-Compact 1 und PT-Compact 2

Colours		
201	white	
202	red	
203	orange	
204	yellow	
206	brown	
207	green	
208	dark blue	
209	middle blue	
210	black	
211	grey	



Fast single-colour labeling



- For quick, single-colour labeling with cliché and heat-seal ink ribbon (approx. 0.5 — 1.5 sec.)
- Ideal labeling solution for flat linen, shoe soles and much more
- Available as standard (TTHS) for cotton and blended fabrics
- Widths: 25, 30, 40, 50, 75, 95 and 100 mm (further widths on request)
- Roll length: 40 m each
- Extremely wash-resistant and suitable for industrial ironer
- Excellent quality at a fair price

Cliché with engraving or insert strip for letters



PPE



Work gloves with labeling



Ownership labeling of flat linen



Printing with heat-seal special colour ribbon



Size indication in underwear



Size indication in the T-shirt

Individual and high-quality Printing on textiles requires specialized professional equipment and consumables. The results speak for themselves. Ideal for use in the garment industry.

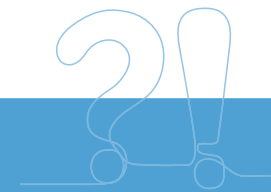
OUR EMBLEMS ARE A PROMISE

THERMOTEX emblems stand for high-quality marking of workwear, protective clothing, rainwear, promotional clothing, sportswear and leisurewear in your corporate design! No matter the taste or field of application — THERMOTEX offers you the full range of choice in its emblem portfolio.



FINISHING

Countless finishing options — from workwear, protective and rainwear to promotional, sports and leisure clothing — demand countless types of emblems. That's exactly what you'll find at THERMOTEX: premium-quality emblems for every requirement. Our experts are happy to advise you on the standards our emblems meet. And as a full system provider, we don't just offer transfer presses and contract heat-sealing services — we also ensure the perfect preparation of your data. Bring your clothing into your corporate design now!



FTC EMBLEMS (FT)

Premium emblem with maximum wash resistance — versatile for a wide range of applications. Perfectly suited for stretch fabrics, such as workwear and leisurewear.



EFFECT EMBLEMS (EE)

Reflective, fluorescent — or both?
A true highlight that adds that extra touch to your design.



MULTICOLOUR EMBLEMS (MC)

Premium emblem with maximum wash resistance — perfect for printing images and colour gradients with precise colour reproduction.



REFLEX EMBLEMS FILM (RF)

With direct printing on film, the Reflex emblem film enables both full-surface and freestanding designs. And just like the Reflex emblem plotter, the film stands out with excellent reflective performance.



REFLEX EMBLEMS PLOTTER (RP)

The silver reflective material is perfect for simple lettering and logos. With its outstanding reflective performance, the emblem is ideally suited for garments used by rescue services, fire brigades, police and other protective equipment (PPE).



Textile finishing with emblems

THERMOTEX emblems stand for premium-quality labeling of workwear, protective clothing, rainwear, promotional, sports and leisure garments — all in your corporate design! Whatever your taste or field of application, THERMOTEX offers you an extensive emblem portfolio to choose from.

Three popular emblem variants:

- **Transfer:** The design is applied directly onto the textile.
- **Textile:** With a genuine textile look and feel, these emblems are fully heat-sealed onto the garment.
- **Reflex:** Made from silver reflective material, delivering outstanding reflection performance.



TEX EMBLEMS (TE)

A robust, highly durable textile label for all types of garments. With its excellent opacity, it delivers outstanding visual quality.



AQUAFLEX EMBLEMS (AF)

An extremely stretchable emblem — digitally produced with an eco-friendly, water-based process.



EMBROIDERED EMBLEMS (S)

Made with PET yarn from colourfast, recycled polyester



SUBLIMATION EMBLEMS (SB)

Emblems produced with the sublimation process deliver flawless print and colour quality — even for the finest lines and intricate designs.



STANDARD

EMBLEMS

DIN EN ISO 11611	DIN EN ISO 11612	DIN EN ISO 14116	DIN EN 1149-T1-5	DIN IEC 61482-1-2	DIN EN 61340-5-1	DIN EN 13034	DIN EN 510	DIN EN 342	DIN EN 343	DIN EN ISO 20471
Protection during welding work and related processes	Heat and flame protection	Heat and flame protection	Protective clothing — electrostatic properties	Protective clothing against the thermal hazards of an electric arc	Protection of electronic components against electrostatic phenomena	Protective clothing against liquid chemicals	Protective clothing — machine protection	Protective clothing against cold	Rainwear	Requirements for high-visibility warning clothing
										
FTC Emblem: Variant flame-retardant (FH) / flame-retardant + dye blocking (FH/DB) Multicolour Emblem: Variant flame-retardant (MC/FH) / flame-retardant + dye blocking (MC/FH/DB) Effect Emblem: Variant flame-retardant (EE/FH and EE/FH/DB) Reflex Emblem Plotter: Variant silver reflective / flame-retardant (RP/FH) + yellow reflective / flame-retardant (RP/GE)	FTC Emblem: Variant flame-retardant (FH) / flame-retardant + dye blocking (FH/DB) Multicolour Emblem: Variant flame-retardant (MC/FH) / flame-retardant + dye blocking (MC/FH/DB) Effect Emblem: Variant flame-retardant (EE/FH and EE/FH/DB) Reflex Emblem Plotter: Variant silver reflective / flame-retardant (RP/FH) + yellow reflective / flame-retardant (RP/GE)	FTC Emblem: Variant flame-retardant (FH) / flame-retardant + dye blocking (FH/DB) Multicolour Emblem: Variant flame-retardant (MC/FH) / flame-retardant + dye blocking (MC/FH/DB) Effect Emblem: Variant flame-retardant (EE/FH and EE/FH/DB) Reflex Emblem Plotter: Variant silver reflective / flame-retardant (RP/FH) + yellow reflective / flame-retardant (RP/GE)	All Emblems	FTC Emblem: Variant flame-retardant (FH) / flame-retardant + dye blocking (FH/DB) Multicolour Emblem: Variant flame-retardant (MC/FH) / flame-retardant + dye blocking (MC/FH/DB) Effect Emblem: Variant flame-retardant (EE/FH and EE/FH/DB) Reflex Emblem Plotter: Variant silver reflective / flame-retardant (RP/FH) + yellow reflective / flame-retardant (RP/GE)	All Emblems	All Emblems	All Emblems	FTC Emblem: all variants Multicolour-Emblems: all variants	All Emblems and Reflective material on rolls	Reflex Emblem Plotter: all variants Reflective Emblem Film (RF) Reflective material on rolls

We are happy to support and advise you in selecting the emblems.

Emblem Standards

The list below shows the standards our emblems fulfil. However, we recommend that you have a laboratory perform a risk analysis prior to use — to ensure that your specific application and intended purpose in combination with an emblem are properly tested. We will gladly arrange the appropriate quotation for you.





Most popular emblems in the transfer process. You can find all emblems on our website.



Applies only to flame-retardant emblems



FTC-EMBLEMS (FT)

Premium emblem — available in 3 versions

- **Standard (FT)**
 - Emblem for non-sublimating textiles
- **Dye-Blocking Emblems (DB)**
 - Prevents dye migration from the textile into the emblem
 - Ideal for fabrics that release dye during heat-sealing (e.g., softshell)
- **FTC Flame-Retardant Emblems (FH)**
 - For protective workwear (heat protection)
 - Safety clothing
 - Protective garments (e.g., for welding)



Areas of application	Workwear, polo shirts, softshell, sports and leisurewear, sweatshirts, T-shirts
Motifs	Freestanding motifs possible (no colour gradients)
Colour	All colours available according to Pantone C, HKS K, RAL
Coverage	High
Heat-seal temperature	130° - 180°C
Wash resistance	Suitable for industrial laundering (depending on heat-sealing temperature)
Removable	No
Carrier	Transparent Film
Printing method	Screen printing

EFFECT EMBLEMS (EE)

Areas of application	Workwear, polo shirts, softshell, sportswear and leisurewear, sweatshirts, T-shirts
Motifs	Freestanding shapes possible
Coverage	High
Heat-seal temperature	130° - 180°C
Removable	No
Wash resistance	Fluorescent: suitable for industrial washing (depending on the heat-seal temperature) Reflective: up to 60 °C Combined: suitable for industrial washing (depending on the heat-seal temperature)
Carrier	Transparent film
Printing method	Screen printing

REFLECTIVE

- Surface completely reflective
- Not according to EN ISO 20471



FLUORESCENT



- Daylight fluorescent colours in red, orange, green and yellow
- Strong luminous effect under black light
- Particularly suitable for design effects



MULTICOLOUR EMBLEMS (MC)

Images and gradients with exact colour reproduction

- Available in 3 versions
 - Standard (MC)
 - Dye-blocking (MC DB)
 - Flame-retardant (MC FH, MC FH DB)



Areas of application	Workwear, polo shirts, sportswear and leisurewear, sweatshirts, T-shirts, for true colour gradients and images
Motifs	Freestanding shapes possible
Colour	Images, colour gradients, all colours according to Pantone C, HKS K
Coverage	Very high
Heat-seal temperature	130° - 180°C
Removable	No
Wash resistance	Suitable for industrial washing (depending on the heat-seal temperature)
Carrier	Transparent film
Printing method	Combination of screen and digital printing



Applies only to flame-retardant emblems

SUBLIMATION EMBLEMS (SB)

Cost-effective alternative to the embroidery emblem, available with name imprint

- Available in 2 versions
 - With embroidered border for heat-sealing or sewing on
 - Without embroidered border for heat-sealing (excellent print and colour quality, particularly durable, 100% polyester)



Areas of application	Protective workwear, workwear, rental workwear, sportswear and leisurewear
Motifs	No completely freestanding motifs possible
Colour	All colours printable according to bitmap, including colour gradients or images
Coverage	High
Heat-seal temperature	204°C
Removable	Yes, with adhesive residue
Wash resistance	Industrial washing up to 85 °C
Printing method	Sublimation printing



With embroidered border



Firefighter jacket with sublimation emblem



TEX EMBLEMS (TE)

Textile appearance as digital emblems and very robust

Available in 3 versions:

- ▶ Standard (industrial wash resistance)
- ▶ Low temperature: for sensitive textiles, heat-seal temperature from as low as 130 °C — not suitable for industrial washing
- ▶ Low temperature with spot varnish: partial raised effect

Areas of application	Protective workwear, workwear, rental textiles, sportswear and leisurewear, sweatshirts, T-shirts
Motifs	No completely freestanding motifs possible
Colour	All colours according to Pantone C, HKS K, RAL, including colour gradients or images
Coverage	High
Heat-seal temperature	Standard 204°C NT + NT Spot 130 - 160°C
Removable	Yes, with little adhesive residue
Wash resistance	Standard suitable for industrial washing NT + NT Spot up to 60 °C
Printing method	Digital printing



Applies only to flame-retardant emblems

REFLECTIVE MATERIAL ON ROLL

The reflective material on rolls impresses with its high reflection values. It is primarily suitable for protective clothing, but can also be used on sports and leisurewear. The reflective strips are available both for heat-sealing and for sewing.



- ▶ According to DIN EN ISO 20471
- ▶ Standard width: 50 mm
- ▶ Other widths on request
- ▶ Roll length: 50 m



REFLEX EMBLEM PLOTTER (RP)

For protective clothing and optimum reflection values according to EN ISO 20471

Available in 5 versions

- Silver reflective / standard (RP)
- Silver reflective / 3M 5807 (RP/3M)
- Silver reflective / flame-retardant (RP/FH)
- Silver reflective / industrial washing (RP/IW)
- Yellow reflective / flame-retardant (RP/GE)

Areas of application	Protective workwear and other protective clothing, workwear, fire brigade, police, especially for rescue services
Motifs	Freestanding shapes possible (logos, motifs, lettering)
Colour	Single-colour: silver or yellow reflective
Coverage	Very good
Heat-seal temperature	140°C - 165°C (depending on the version)
Removable	No
Wash resistance	Industrial washing up to 60 °C Industrial washing up to 75 °C (version RP/IW)
Printing method	Transparent film



REFLEX EMBLEME FILM (RF)

Reflective logos for maximum visibility — without compromises in corporate design

Areas of application	Workwear, protective clothing, sportswear and leisurewear, textile promotional items
Motifs	Freestanding motifs possible / lettering with a minimum line thickness of 3 mm possible
Colour	Silver = silver reflective according to DIN ISO 20471, printable in screen printing single- or multicolour, no colour gradients possible
Coverage	Very high
Heat-seal temperature	140°C - 150°C
Removable	No
Wash resistance	Up to 60°C
Printing method	Screen printing, plotted



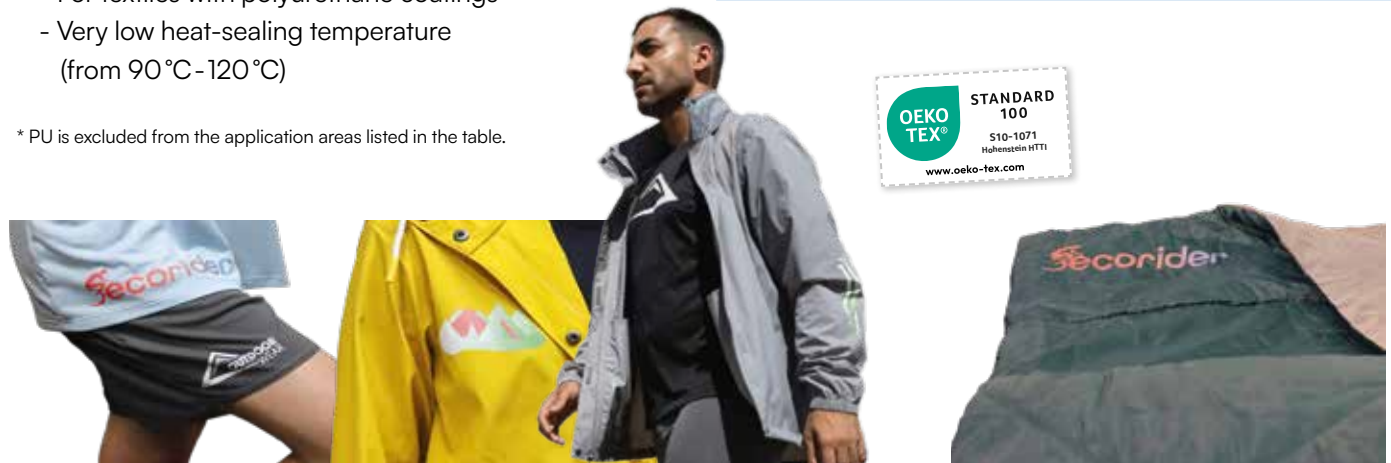
TRANSFER AQUAFLEX (AF)

Digitally produced, eco-friendly emblem made with water-based components and extremely stretchable

- ▶ **Standard (AF)**
 - Emblem for non-sublimating textiles
 - Heat-sealing temperature 130 - 160°C
- ▶ **Dye-Blocking (AF DB)**
 - Prevents sublimation effects in fabrics that release dye during heat-sealing, e.g., polyester fabrics
 - Heat-sealing temperature 130 - 160°C
- ▶ **Flame-Retardant (AF FH, AF DB FH)**
 - Ideal for heat- and welding-protection garments
- ▶ **PU (AF PU)***
 - For textiles with polyurethane coatings
 - Very low heat-sealing temperature (from 90 °C - 120 °C)

* PU is excluded from the application areas listed in the table.

Areas of application	Swimwear, workwear, sports and (outdoor) leisurewear, promotional items, and many other special fabric types
Motifs	Freestanding and multicoloured motifs possible
Colour	Images, colour gradients, all colours available according to Pantone C and HKS K
Coverage	High
Wasch resistance	Up to 60°
Carrier	Transparent Film
Printing method	Combination of screen and digital printing



EMBROIDERED EMBLEMS (S)

Made of colourfast recycled polyester yarn

- ▶ **Properties:**
 - Raised, elegant surface
 - For heat-sealing or sewing on
 - Particularly durable
 - Possible as direct embroidery
 - Possible with Nomex yarn (for protective and flame-retardant clothing)
 - PET yarn made of recycled polyester



Areas of application	Protective workwear, workwear, rental workwear, sportswear and leisurewear
Colours	Colour according to embroidery yarn colour chart
Coverage	Excellent
Heat-seal temperature	204°C
Removable	Yes, with little adhesive residue
Wash resistance	Suitable for industrial washing



Barcode Labels

As unique as a fingerprint — barcodes give textiles and other items their identity. They enable precise tracking and monitoring of inventory, stock utilisation and even the full lifecycle of a laundry item.



PRECISION MEETS EFFICIENCY



Whether for inventory control, laundry processes or stock management — our modern barcode systems keep everything under control. Durable, precise and user-friendly, they guarantee optimal capture and management. With outstanding durability, flexible mounting options and full customisation, they are the ideal solution for reliable identification and tracking.



Barcode label in rental workwear

FOR HEAT-SEALING

Printed barcode and data matrix code labels



- ▶ By default, 6, 8, 10 or 12 digits possible (others on request)
- ▶ Text line can be integrated above or below the barcode
- ▶ Available in various dimensions and sizes
- ▶ Individually cut

FOR SEWING IN

Woven barcode labels



Barcode label in high-visibility vest



- ▶ Additional text and logos can be integrated
- ▶ No changes after 100 wash cycles
- ▶ At 95 °C in lye with pH value 10.5 — 11
- ▶ Bleaching with common bleaching agents and neutralising in inorganic acids
- ▶ Drying channel at 180 °C
- ▶ Dry cleaning with organic solvents
- ▶ Individually cut



THE BENEFITS OF IDENTIFICATION AND UHF RFID TECHNOLOGY

Organisation, administration and cleaning — at first glance, it may seem like a manageable task. But in textile management, the true complexity is known only to those who work with it every day. To make organisation and administration as simple and secure as possible, THERMOTEX offers both individual products and complete identification solutions. Want greater transparency in your laundry operations? With RFID technology, you can access information on each textile — from the owner to the washing cycle and even its lifetime — in real time. This enables you to manage the entire lifecycle of your textiles with maximum efficiency!

UHF Transponders

For every application, the right transponder size. The UHF transponders differ not only in their size but above all in the wide range of printing options — as shown, for example, with the F10 transponder.

600
parts in 8.5
seconds

Container und bulk reading

UHF systems are particularly suitable for recording larger quantities. In less than 10 seconds, up to 600 items can be captured at once.

Process-supporting

With our UHF systems you not only save time and costs. Integrated into your process, you also benefit from error-free recording.



UHF Universal Systems

They are ideal for integration into existing conveyor systems. Reading entire packages, bags or stacks results in enormous time savings.

Accessories

With our accessories, we complete the transponder equipment.



For Heat-sealing

Our transponders for heat-sealing offer a robust solution for the simple and fast identification of textile products. They are characterized by their high durability.



F10 58 x 18.5 mm • Thickness: 0.5 mm < 2.5 mm in chip area

Article	Blank Item no. 67631	With EPC number Item no. 67582	With logo and EPC number Item no. 67966	With Barcode Item no. 67967	With logo Item no. 67632
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F20 70 x 15 mm • Thickness: 1.7

Article	Blank Item no. 69349
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- ▶ **Application areas:** Tracking of workwear, flat linen, and institutional laundry, e.g., in laundry intake/dispatch or cabinet and room inventory
- ▶ **Reading method:** Bulk reading, e.g., in mesh trolleys
- ▶ **Reading range:** Up to 6 meters
- ▶ **Compatibility:** All common UHF reading systems such as Box, Gate, Shelf, Fix Shelf, Universal, Compact, TSL
- ▶ **Application method:** Sewing in / heat-sealing

F10 TRANSPONDER ON ROLL

- ▶ All F10 variants available on roll
- ▶ Especially suitable for garment manufacturers
- ▶ Reading range: up to 6 meters
- ▶ Enables automated merging of transponders with, for example, flat linen



Our UHF stick transponders are industrial-wash resistant and suitable for industrial ironing!

For Sewing in

Our transponders for sewing in are the ideal choice for seamless integration into textile products. They provide a solution for product authentication without compromising comfort or aesthetics.



F11

70 x 11 mm • Thickness: 0.5 mm < 2.4 mm in chip area



Article Item no. 68108

F19

70 x 9 mm • Thickness: 2.5 mm



Article Item no. 70007

F21

75 x 12 mm • Thickness: 1.9 mm



Article Item no. 69606

F31

74 x 10 mm • Thickness: 1.6 mm



Article Item no. 70014

Our UHF stick transponders are industrial-wash resistant and suitable for industrial ironing!

- **Application areas:** Tracking of workwear, flat linen, and institutional laundry — e.g., in laundry intake/dispatch or during cabinet and room inventory
- **Reading method:** Bulk reading, e.g., in mesh trolleys
- **Reading range:** Up to 6 meters

- **Compatible with:** All common UHF reading systems such as Box, Gate, Shelf, Fix Shelf, Universal, Compact, TSL
- **Application method:** Sewing in (primarily into the hem of a textile)

F13

70 x 25 mm • Thickness: 2.4 mm



Article	Blank Item no. 70370	With EPC number Item no. 70371	With logo und EPC number Item no. 70373	With Barcode Item no. 70375
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- **Application areas:** Tracking of institutional laundry, workware, and flat linen — e.g., in cleanroom environments, laundry intake/dispatch, or inventory of cabinets and rooms
- **Reading method:** Bulk reading, e.g., in mesh trolleys
- **Reading range:** Up to 6 meters
- **Compatible with:** All common UHF reading systems such as Box, Gate, Shelf, Fix Shelf, Universal, Compact, TSL
- **Application method:** Sewing on (as a flag or all-around) and sewing in

ACCESSORY: WOVEN TRANSPONDER POUCH

- Available in various pouch sizes
- Quality: taffeta
- Tubular weave
- Heat-cut edges
- For sewing in

For F10
transponders
Item no. 67992



For UHF
sew-in transponders
Item no. 70116



Custom
weaving
available

PPE



UHF SELF-ADHESIVE LABELS

- Suitable for thermal transfer printing
- Adhesive: permanent
- Material: PET white, blank
- Presentation: on roll



Item no. Nr. 66982



PAPER-HANG TAGS

With our individually printable hang tags and our barcode and identification systems, we provide you with complete traceability



- Available in various widths and lengths (Custom-made on request)
- Material: Paper or cardboard
- Price and size printable with thermal transfer printers (from p. 32)
- Fastening: Tagging gun, directly on the textile or through the buttonhole



Hanging goods with paper-hang tags



Scanning of hanging goods

PPE





ADVANTAGES OF IDENTIFICATION & RFID TECHNOLOGY HF

Individual reading

HF technology is particularly suitable for the individual reading and recording of personal data, such as the wearer's name, washing requirements, or the number of previous wash cycles.



HF Reading Systems

The plug-in reading systems — simply plug in and get started. They ensure smooth laundry sorting: the innovative system, consisting of reader and antenna, guarantees seamless laundry detection at the highest level.



Easy allocation

Transponders can be integrated into a wide range of textiles such as garments, mops, or flat linen. This ensures that everything ends up exactly where it belongs.



HF Transponders — available in three sizes

Small, medium, or large: depending on the application, choose between 7, 11, or 16 mm transponders. Each size comes with its own benefits — from visibility to wearing comfort.

Accessories

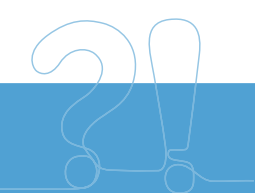
Our range of accessories — such as transponder fastenings or patch dispensers — perfectly complements our HF transponder technology.



RFID technology — HF

- ▶ For fully automated identification of textiles
- ▶ With unique identification number ("UID")
- ▶ Contactless reading
- ▶ Single reading, stack reading, bulk reading

- ▶ For patching (with patches) or
- ▶ For sewing in (also additionally into woven pockets)
- ▶ Suitable for industrial ironing and washing



TRANSPONDERS: AVAILABLE IN 7, 11, AND 16 MM — ACCORDING TO DIN ISO 15693.



Item	HF I-Transponder Ø 7 mm	HF I-Transponder Ø 11 mm	HF I-Transponder Ø 16 mm	HF I-Transponder Ø 16 mm
Areas of application	Residents' laundry	Residents' bed linen, workwear, flat linen	workwear, mops/cloths, flat linen, bathrobes, towels and much more	Workwear, mops/cloths, flat linen, bathrobes, towels and much more
Application	Single reading	Single reading, stack reading	Single reading, stack reading, bulk reading	Single reading, stack reading, bulk reading
Thickness	2.0 mm	2.4 mm	2.8 mm	2.8 mm
Reading range	Up to 16 cm	Up to 28 cm	Up to 42 cm	Up to 42 cm
Laser engraving	No	No	No	Yes (custom logo possible)

Item no. 64336

Item no. 62236

Item no. 64445

Item no. 64446



HF transponder positioning



Fastening with patch material (PA)



HF transponder with patch material (PA)

WOVEN TRANSPONDER POCKETS

Other formats and versions available on request



Versions	Available blank or with weaving, equipped or unequipped
Transponder Size	Up to 16 mm
Material	Polyester
Dimensions (W x H)	24 x 40 mm (standard format)

Item no. 62218

Perfect Label Application

Every textile has its own requirements. To ensure the label adheres securely, temperature, pressure, and time must be precisely coordinated.

Efficient solution:

Heat-sealing machines with a self-opening mechanism automatically lift the heating head after the preset time — either electrically or pneumatically. This ensures optimal results without the need for constant monitoring.

HEAT-SEAL MACHINES

TRANS PRESS 20

With two stations

Connection	230 V, 50 Hz, 2,000 W
Dimensions (W x H x D)	958 mm (with lower plates) x 712 mm x 885 mm
Installation space	770 mm x 700 mm
Upper plate	480 mm x 380 mm
Weight	110 kg



Optional with laser unit for precise alignment

Item no. 24130



Your Benefits:

- ▶ Maximum operating comfort thanks to a smooth, swivelling heating head
- ▶ Plenty of working space with 60 mm stroke of the heating plate
- ▶ Modern touch display for quick and user-friendly operation
- ▶ Integrated two-hand safety control for secure handling
- ▶ Infinitely adjustable pressure and exceptionally even heat distribution
- ▶ Tool-free exchange of lower plates — quick and convenient
- ▶ Built-in safety mechanisms: electronic patch release and automatic fault detection ensure greater safety and prevent faulty heat-sealing
- ▶ Easy replacement of the Teflon cover on the heating plate (Teflon mounted externally for faster changes)

P4

For bulky textiles

- ▶ Extra wide opening angle for maximum freedom of movement and space for thick textiles
- ▶ Easy handling via foot switch operation
- ▶ User-friendly touchscreen display
- ▶ Easily interchangeable heat-sealing plates
- ▶ Highest processing quality
- ▶ CE compliant
- ▶ Compressor required

Connection	230 V, 50 Hz, 750 W
Width	200 mm
Height (closed)	320 mm
Height (open)	490 mm
Depth	540 mm
Weight	22 kg
Upper plate	150 x 115 mm
Operating pressure	4-5 bar

Item no. 21900



PT-Compact 2 in use



PT-COMPACT 2

Specifically designed for use with Ecoflex emblems or roll-fed transfers

- ▶ Specifically designed for use in the garment industry
- ▶ Equipped with a sensor for automatic supply detection in scanning mode
- ▶ Compact, robust, and easy to operate
- ▶ 230 V, 50 Hz, 550 W
- ▶ Compressor required

Width (without discs)	700 mm
Width (with discs)	900 mm
Height (with discs)	600 mm
Length	500 mm
Heating plate	125x95 mm
Weight	~ 35 kg
Operating pressure	3-8 bar

PT-Compact 2

Item no. 17000

TT4-SXT

Colour touch display • Integrated Wi-Fi unit

The profitable TT4-SXT impresses with its ease of operation and robust design for industrial use. The integrated pair of feed rollers ensures stable and secure tape guidance, guaranteeing smooth and reliable label printing processes in your facility.

- High-performance thermal transfer printer with special heating element and 300 dpi resolution
- Large color touch display with self-explanatory icons for intuitive operation
- Internal fonts, barcodes, and tutorial videos accessible
- 32-bit processor with 800 MHz clock frequency
- Interfaces: slot for SD memory card, USB host interfaces, USB 2.0, Ethernet 10/100 Base-T, RS232C interface
- USB port for keyboard and scanner
- Sensor for translucent media and reflective sensor
- Particularly suitable for labels in workwear
- Wireless operation via Wi-Fi

TT4-SX Item no. 21683

TT4-SXM centered Item no. 21728

TT4-SXT centered, with feed roller Item no. 21738

All versions come with a cutting device



With the professional thermal transfer printer, you can produce high-quality labels for textile identification in large quantities. Thanks to the user-friendly color touch display, operation is effortless! The TT4-SX offers various options for seamless integration into your system.

Joy in your labels

The professional TT4-DCQ printer delivers razor-sharp care labels with a wash-resistant print image. These thermal transfer printers impress with high operating speed and a wide range of features.

TT4-DCQ

Double-sided printing • Centered

- Double-sided printing possible
- Centered tape guide
- Textile version with pull roller pair
- Interfaces: USB, Ethernet, RS-232
- Sensor for translucent media and reflective sensor
- Resolution: 300 dpi
- Possible label width: 20—110 mm
- With cutting device & stacking unit: max. 70 mm

TT4-DCQ centered Item no. 24304

TT4-DCQ with cutting device Item no. 24269

TT4-DCQ with cutting device and stacking unit Item no. 24270



The TT4-DCQ features two print units with a centered textile tape guide, enabling you to print double-sided labels.

TT4-CXQ

Two-colour printing • Left-guided

Ribbon save function

Applicable on the underside of the material for print head 1. In this process, the print head is lifted and the transfer ribbon is stopped during material feed.

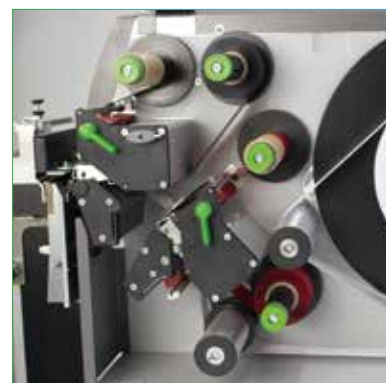
- ▶ Single-sided printing
- ▶ Left-hand material guide
- ▶ Two-colour printing possible
- ▶ Large user-friendly colour touchscreen
- ▶ Sensor for translucent media & reflective sensor
- ▶ Resolution: 300 dpi
- ▶ Possible label width: 25–110 mm
- ▶ Interface: USB, Ethernet, RS-232



TT4-CXQ left-guided Item no. 24305

TT4-CXQ with cutting device Item no. 24271

TT4-CXQ with cutting device and stacking unit Item no. 24272



The TT4-CXQ allows you to print with two different colours simultaneously on a single-sided label, thanks to its two sequential print units.

CERTIFICATIONS

At THERMOTEX, quality comes first! To provide our customers and resellers with a solid foundation, certifications have become an integral part of our company. They guarantee tested quality and proven safety.

ISO 9001:2015

Through consistent quality management in accordance with DIN EN ISO 9001:2015, THERMOTEX continuously advances in a **Continuous Improvement Process**. The objective is to increase quality, optimize processes, and minimize risks. Clearly defined corporate goals with measurable key figures serve as guidance and support optimization.



REACH COMPLIANCE

THERMOTEX places great importance on protecting both the environment and people. Therefore, we act in accordance with the **EU Regulation 1907/2006 (REACH Regulation)** of December 18, 2006, as a downstream user (manufacturer of articles). According to information provided by our raw material suppliers, **the materials we use contain no substances from the current Candidate List (SVHC list) in concentrations exceeding 0.1% by weight.**

OEKO-TEX CERTIFICATE

The OEKO-TEX® certificate is a globally recognized testing and certification system for textile products.

Based on defined test criteria and limit values, we examine textiles for their **ingredients and safety**. We certify emblems, operating

materials, and transponders with OEKO-TEX® to ensure a high and effective level of product safety.



WASHING TESTS ACCORDING TO DIN EN ISO 15797

With the support of an **independent testing laboratory**, THERMOTEX regularly tests the screen-print and multicolour emblem variants for their **wash resistance**.

This ensures **long-lasting emblems of the highest quality**.





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