GUIDE FOR PRINTING TECHNIQUES

C U S T O M I Z A T I O N

Technical Especifications · Product Typology · Limitations · Colour Palettes

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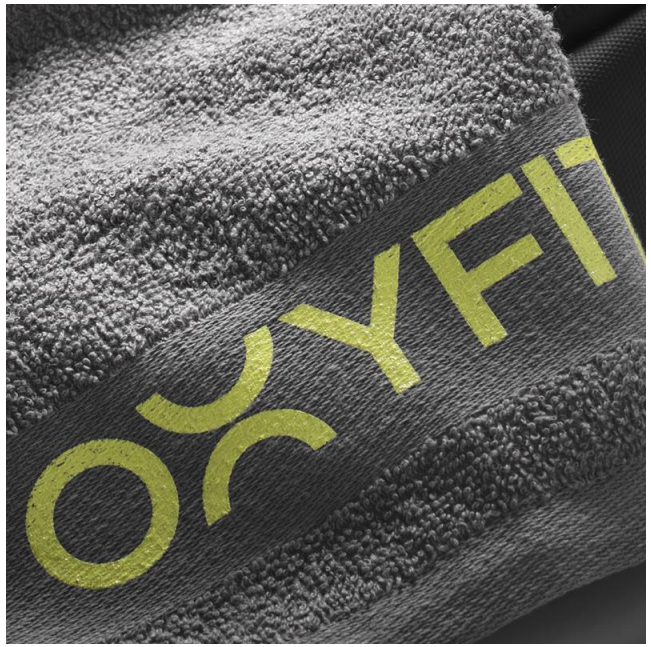
Í N D I C E

SCREEN PRINT

TEXTILE SCREEN PRINT



Textile screen printing consists of applying ink directly onto the fabric through screens, allowing for a durable print with good coverage and high longevity. It is an ideal technique for bulk production and designs with solid colors, ensuring consistency across pieces. It works best with simple, well-defined compositions and is not recommended for gradients or detailed images.

SCREEN PRINT

TEXTILE SCREEN PRINT

01

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text example	**2,5 mm**
Minimum letter height (negative)	Text example	**3,2 mm**
Minimum line thickness (positive)		**0,5 mm**
Minimum line thickness (negative)		**0,9 mm**
Colours		**Pantone**
Full Colour / Gradients		**No**
Max. number of colours		**3**
Logo format		**Vector**
Ease of registration		**Ok**

Vector formats: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

TYPE OF PRODUCTS

· T-shirts, hoodies, Sweatshirts and polos
· Aprons
· Fabric bags (tote bags + cotton bags)
· Beach towels and bath towels
· Umbrellas

ADVANTAGES

· Long-lasting prints
· Excellent coverage

CONSTRAINTS

× 1 screen per colour - multicolour increases cost
× No gradients, shadows or full colour
× High setup cost for small runs
× Not suitable for rigid surfaces

SCREEN PRINT

Flat screen printing is a screen-based printing technique applied to rigid, flat surfaces such as wood, paper, metal or plastic, ensuring good coverage and excellent cost-effectiveness for large quantities. It is suitable for simple logos and solid colors, and is not appropriate for gradients or complex images. It also requires specific preparation for each colour.

Circular screen printing allows printing on cylindrical surfaces through a rotary system, making it ideal for bottles, cups or thermal flasks. It ensures good adaptation to the product’s shape, but is limited to simple designs and one color per print.

SCREEN PRINT

FLAT SCREEN PRINTING – SMALL FORMATS

02

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**1,5 mm**
Minimum letter height (negative)	Text	**2,2 mm**
Minimum line thickness (positive)		**0,3 mm**
Minimum line thickness (negative)		**0,4 mm**
Colours		**Dedicated colour palette**
Full Colour / Gradients		**No**
Max. number os Colours		**1**
Logo format		**Vector**
Ease of registration		**Nok**

Vector formats: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

TYPE OF PRODUCTS

· Flat rigid materials:
  - Cork and wood (coasters, power banks, pens, etc.)
  - Paper and cardboard (notebooks, etc.)
  - Metal and plastic (bottles, lunch boxes, power banks, etc.)

ADVANTAGES

· Excellent coverage
· Good cost-effectiveness in large quantities

CONSTRAINTS

× 1 screen per colour
× No gradients, shadows or full colour
× High setup cost for small runs
× Hairline and 0.10 mm not accepted
× Limited to flat surfaces

SCREEN PRINT

CIRCULAR

03

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**1,5 mm**
Minimum letter height (negative)	Text	**2,2 mm**
Minimum line thickness (positive)		**0,3 mm**
Minimum line thickness (negative)		**0,4 mm**
Colours		**Dedicated colour palette**
Full Colour / Gradients		**No**
Max. number os Colours		**1**
Logo format		**Vector**
Ease of registration		**Nok**

TYPE OF PRODUCTS

· Materiais rígidos cilíndricos:
  - Garrafas, Canecas, Termos, Copos.

ADVANTAGES

· Ideal for logos and patterns on rounded objects

CONSTRAINTS

× 1 colour per pass - multicolour requires alignment
× No gradients, shadows or full colour
× High setup cost for small runs
× Diameter limited by the screen/frame

Vector formats: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

SCREEN PRINT

AVAILABLE COLOURS

106 C	Yellow C	116 C	137 C	Orange 021 C	7579 C
179 C	2035 C	1795 C	7424 C	3005 C	637 C
661 C	2758 C	294 C	2756 C	2695 C	369 C
376 C	3522 C	7483 C	328 C	1675 C	477 C
White	Black	Grey	Gold	Silver	

ⓘ *Other colours available upon request*

PAD PRINTING

Pad printing uses a silicone pad to transfer ink onto the product, allowing printing on irregular, curved or small surfaces. It is a versatile technique widely used in promotional items, offering good results for complex logos, although it is limited in print area and number of colours.

PAD PRINTING

04

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**1,3 mm**
Minimum letter height (negative)	Text	**1,7 mm**
Minimum line thickness (positive)		**0,15 mm**
Minimum line thickness (negative)		**0,3 mm**
Colours		**Dedicated colour palette**
Full Colour / Gradients		**No**
Max. number of colours		**2**
Logo format		**Vector**
Ease of registration		**Ok**

Vector formats: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

TYPE OF PRODUCTS

· Bottles, mugs, thermal flasks, cups, food flasks, etc.
· Notebooks and pens
· Cables, earbuds, headphones, power banks, speakers, wireless chargers, etc.
· Plastic, metal, and glass

ADVANTAGES

· Works on almost all types of surfaces
· Good results for small-scale designs

CONSTRAINTS

× No gradients, shadows or full colour
× Limited to small print areas
× Hairline stroke thickness not accepted
× Limited number of colours

PAD PRINTING

AVAILABLE COLOURS

106 C	Yellow C	116 C	137 C	Orange 021 C	7579 C
179 C	2035 C	1795 C	7424 C	3005 C	637 C
661 C	2758 C	294 C	2756 C	2695 C	369 C
376 C	3522 C	7483 C	328 C	1675 C	477 C
White	Black	Grey	Gold	Silver	

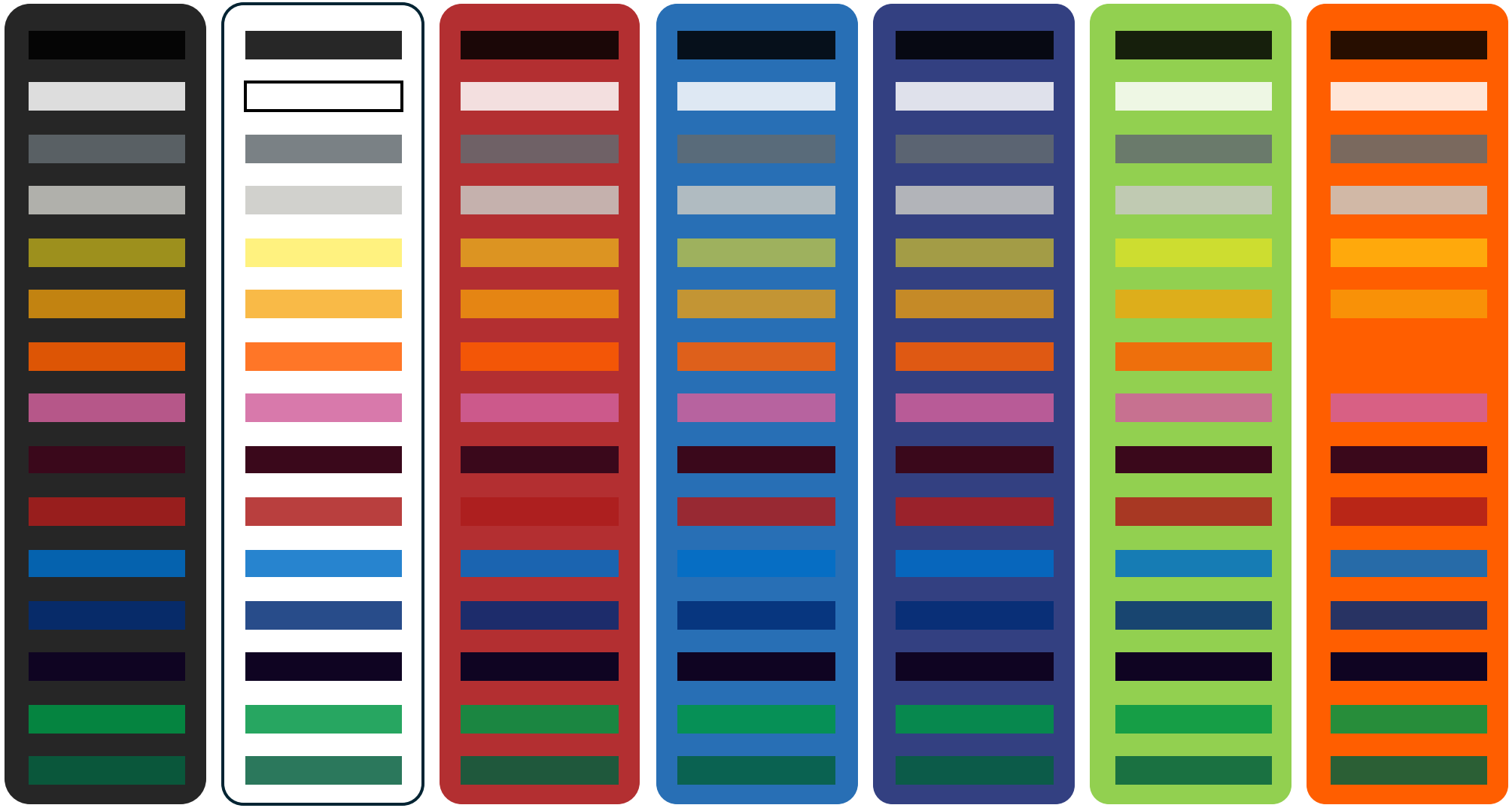
ⓘ *Other colours available upon request*

PAD PRINTING

AVAILABLE COLOURS SILICONE

- Black
- White
- Dark Grey
- Light Grey
- Yellow
- Light Orange
- Dark Orange
- Light Pink
- Dark Pink
- Red
- Light Blue
- Dark Blue
- Purple
- Light Green
- Dark Green

SIMULATION ON VARIOUS BACKGROUND COLOURS



LASER

Laser engraving consists of removing or altering the surface of a material using a laser beam, creating a permanent mark without the use of ink. The result is monochromatic and depends on the material, making it ideal for metal, wood, glass or cork, with a precise and elegant finish.

Circular laser engraving allows engraving on cylindrical surfaces, ensuring design continuity on items such as bottles or thermal flasks. It maintains the characteristics of laser engraving - permanent and precise -but depends on the material and product shape to achieve good results.

Textile laser engraving works by controlled burning of the fabric surface, creating contrast and marking without the use of ink. The result is subtle and elegant, preserving the feel of the material, but it depends on the type and color of the fabric, and is most effective for simple designs with thicker lines.

LASER

FLAT

05

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)*	Text	**1,2 mm**
Minimum letter height (negative)*	Text	**1,5 mm**
Minimum line thickness (positive)*		**0,13 mm**
Minimum line thickness (negative)*		**0,3 mm**
Colours		**---**
Full Colour / Images		**No**
Logo Format		**Vector**
Ease of registration		**N/A**

Vector formats: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

**Some materials may influence these values — e.g., wood and cork*

TYPE OF PRODUCTS

· Metal products (bottles, pens, thermal flasks, lunch boxes, etc.)
· Wood products (boards, coasters, wireless chargers, notebooks, etc.)
· Glass products (canisters, mugs, etc.)
· Cork products (notebooks, pens, coasters, etc.)

ADVANTAGES

· Extremely precise and permanent
· Elegant finish

CONSTRAINTS

× Monochromatic result
× Result depends on the material (some plastics react poorly to heat)
× Contrast may be limited

LASER

CIRCULAR

06

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**1,2 mm**
Minimum letter height (negative)	Text	**1,5 mm**
Minimum line thickness (positive)		**0,13 mm**
Minimum line thickness (negative)		**0,3 mm**
Colours		**---**
Full Colour / Images		**No**
Logo Format		**Vector**
Ease of registration		**N/A**

Vector formats: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

TYPE OF PRODUCTS

· Bottles
· Metallic cups and mugs
· Thermos and Canisters
· Ball pens

ADVANTAGES

· Continuous engraving on curved surfaces
· Permanent finish, suitable for detailed logos

CONSTRAINTS

× Limited to regular cylindrical surfaces
× Result depends on the material
× Area constrained by the product's shape and diameter

LASER

TEXTILE

07

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**5 mm**
Minimum letter height (negative)	Text	**8 mm**
Minimum line thickness (positive)		**1,5 mm**
Minimum line thickness (negative)		**2 mm**
Colours		**---**
Full Colour / Images		**No**
Logo Format		**Vector**
Ease of registration		**N/A**

Vector formats: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

TYPE OF PRODUCTS

· Fabric bags (tote bags + cotton bags)
· Backpacks, coolers, and toiletry bags
· Fabric office items: folders

ADVANTAGES

· Preserves the original feel of the fabric
· Subtle and sophisticated finish

CONSTRAINTS

× The design should use thicker lines / bold lettering
× Result depends on the type and colour of the fabric
× Limited contrast on light-coloured fabrics
× Not recommended for synthetic fabrics (test beforehand)

TRANSFER

TRANSFER

Digital transfer consists of printing the design onto a film, which is then transferred to the fabric using heat and pressure, allowing the reproduction of full-colour images with good definition. It is a versatile technique adaptable to various materials, although it may have a slightly noticeable feel to the touch.

Standard/special flex transfer uses a cut vinyl film that is heat-applied to the fabric, resulting in a uniform and durable finish. It is ideal for simple designs and solid colours, offering good durability, but does not allow gradients or very fine details due to cutting limitations.

3D transfer creates a raised effect in the design, resulting in a three-dimensional look with strong visual impact. It is a technique suited for simple logos with good line thickness, and is not suitable for fine details or very delicate fabrics.

DIGITAL

FLEX

3D

TRANSFER DIGITAL

TRANSFER

08

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**1,5 mm**
Minimum letter height (negative)	Text	**2,2 mm**
Minimum line thickness (positive)		**0,5 mm**
Minimum line thickness (negative)		**1 mm**
Colours		**CMYK**
Full Colour / Images		**Yes**
Logo Format		**Vector/Image**
Ease of registration		**Ok**

Vector format: *.ai .svg .eps .cdr .pdf*
Image format: *.jpg .png .tif .psd .psd (images with minimum of 300dpi)*

TYPE OF PRODUCTS

· T-shirts, hoodies, sweatshirts and polos
· Backpacks, coolers, sports bags and toiletry bags
· Blankets, aprons, towels and gloves
· Notebooks and fabric/leather folders
· Fabric bags (tote bags + cotton bags)
· Umbrellas, caps and beanies

ADVANTAGES

· Versatile across different fabrics
· Ideal for multicolour and photographic designs
· Good opacity/contrast on dark backgrounds
· Full colour with high contrast

CONSTRAINTS

× Noticeable feel (slightly plastic)
× Reduced breathability in large areas
× Lower durability than screen printing with heavy use

TRANSFER FLEX

09

STANDARD

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)		**8 mm**
Minimum letter height (negative)		**10 mm**
Minimum line thickness (positive)		**1,5 mm**
Minimum line thickness (negative)		**2 mm**
Colours		**Dedicated colour palette**
Full Colour / Images		**No**
Logo Format		**Vector**
Ease of registration		**N/A**

possible vector formats: *.ai .svg .eps .cdr .pdf (pdf s only accepted if the content is vector-based)*

TYPE OF PRODUCTS

· T-shirts, hoodies, sweatshirts and polos
· Blankets, aprons and towels
· Fabric bags (tote bags + cotton bags)
· Umbrellas, caps and beanies

ADVANTAGES

· Good durability under normal use
· Clean and uniform finish

CONSTRAINTS

× Limited to solid colours
× Not suitable for complex or small designs
× Cutting limitations for very fine details

TRANSFER FLEX

STANDARD COLOURS

SOLID

4301 White	Pantone 114 C 4319 Lemon Yellow	Pantone 123 C 4318 Medium Yellow	Pantone 4010 C 4315 Orange	Pantone 032 C 4368 Light Red	Pantone 032 C 4308 Red
Pantone 189 C 4361 Baby Pink	Pantone 210 C 4360 Magenta	Pantone 208 C 4372 Cardinal Red	Pantone 2042 C 4309 Bordeaux	Pantone 273 C 4314 Purple	Pantone 297 C 4365 Sky Blue
Pantone 647 C 4306 Royal Blue	Pantone 296 C 4305 Navy Blue	Pantone 375 C 4367 Apple Green	Pantone 349 C 4304 Green	Pantone 7533 C 4316 Brown	Pantone 430 C 4312 Grey
4302 Black	4320 Gold Metalic	4330 Silver Metalic	4924 Coopper Metalic	Reflex Silver	

ⓘ Other colors available upon request

TRANSFER FLEX

SPECIAL

10

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**8 mm**
Minimum letter height (negative)	Text	**10 mm**
Minimum line thickness (positive)		**1,5 mm**
Minimum line thickness (negative)		**2 mm**
Colours		**Dedicated colour palette**
Full Colour / Images		**No**
Logo Format		**Vector**
Facilidade de registo		**N/A**

possible vector formats: *.ai .svg .eps .cdr .pdf (pdf s only accepted if the content is vector-based)*

TYPE OF PRODUCTS

· T-shirts, hoodies, sweatshirts, and polos
· Blankets, aprons, and towels
· Fabric bags (tote bags + cotton bags)
· Umbrellas, caps, and beanies

VANTAGENS

· Variety of distinctive finishes
· Good durability under normal use

CONSTRANGIMENTOS

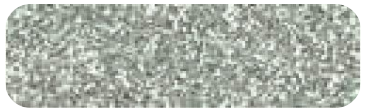
× Limited to the effects of the film itself (solid finish)
× Not suitable for complex or small designs
× Cutting limitations for very fine details (> 1.5 mm)

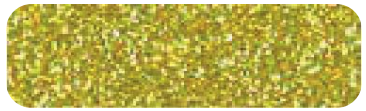
TRANSFER FLEX

SPECIAL COLOURS

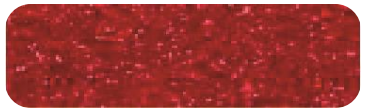
PEARL GLITTER

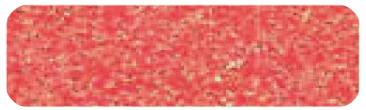

444 White

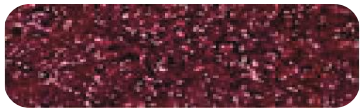

450 Silver

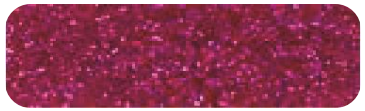

451 Gold


426 Copper


456 Red


487 Coral


422 Burgundy

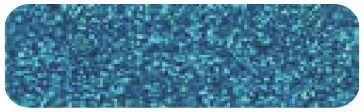

432 Hot Pink

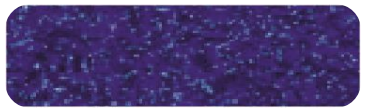

457 Pink


428 Lavender


424 Purple

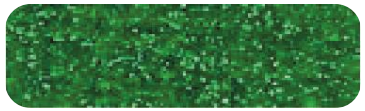

445 Sky Blue

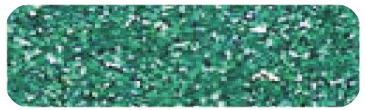

454 Blue


489 Royal Blue


423 Navy Blue


483 Light Green


455 Green


482 Jade


427 Emerald


452 Bronze


486 **Rose** Gold


490 Champagne


488 Black

NEON


403 Blue

440 Yellow


442 Orange


443 Pink


441 Green

ⓘ *Other colors available upon request*

TRANSFER FLEX

SPECIAL COLOURS

FLOCK

001 White	Pantone 1235 C 100 Lemon	Pantone 3514 C 105 Honey Yellow	Pantone 137 C 110 Yellow	Pantone 4010 C 180 Orange	Pantone 202 C 200 Red
Pantone 485 C 210 Signal Red	Pantone 7606 C 240 Light Rose	Pantone 7425 C 250 Magenta	Pantone 219 C 280 Pink	Pantone 690 C 260 Berry	Pantone 273 C 360 Purple
Pantone 280 C 300 Blue	Pantone 291 C 310 Ice Blue	Pantone 7685 C 320 Sky Blue	Pantone 3105 C 380 Turquoise	Pantone 349 C 400 Green	Pantone 2329 C 540 Mocca
Pantone 430 C 730 Grey	Pantone 6217 C 780 Anthracite	700 Black			

ⓘ *Other colors available upon request*

TRANSFER FLEX

SPECIAL COLOURS

HOLOHGRAPHIC

Holographic Silver Iridescent

MIRROR

421 Brilliant Gold

431 Brilliant Silver

683 Brilliant Coopper

AURORA

0001 White

0008 Pink

0006 Cian

0020 Metalic Gold

0021 Metalic Silver

ⓘ *Other colors available upon request*

TRANSFER 3D

11

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)		**8 mm**
Minimum letter height (negative)		**10 mm**
Minimum line thickness (positive)		**1,5 mm**
Minimum line thickness (negative)		**2 mm**
Colours		**Dedicated colour palette**
Full Colour / Images		**No**
Logo Format		**Vector**
Ease of registration		**N/A**

possible vector formats: *.ai .svg .eps .cdr .pdf (pdfs only accepted if the content is vector-based)*

TYPE OF PRODUCTS

· Hoodies and sweatshirts
· Aprons
· Fabric bags (tote bags + cotton bags)
· Caps

ADVANTAGES

· Three-dimensional effect with strong visual impact
· Enhanced logo prominence

CONSTRAINTS

× Not suitable for fine details/small lettering
× May distort delicate fabrics
× Slower process than DTF
× Higher cost per unit

TRANSFER 3D

STANDARD COLOURS

Available Colours — Brick 600 version without fluorescent effects

Brick White	Brick Black	Brick Grey	Brick Silver	Brick Gold	Brick Yellow
Brick Orange	Brick Red	Brick Green	Brick Lime	Brick Royal Blue	Brick Navy blue

TRB - Available colors - with effect

Brick Holographic

ⓘ *Other colors available upon request*

TEXTILE DOMING

Textile doming consists of applying a full-colour print coated with resin, creating a three-dimensional effect with a glossy finish and strong visual impact. It offers good definition and visual impact, although it is sensitive to heat, impact and prolonged exposure.

TEXTILE DOMING

12

TECHNICAL SPECIFICATIONS

Minimum letter height (negative)		**1,7 mm**
Minimum line thickness (negative)		**0,8 mm**
Colours		**CMYK**
Full Colour / Images		**Yes**
Logo format		**Vector/Image**
Ease of registration		**High**

The logo should be simple and well-defined, with closed and continuous areas to ensure a uniform embossed effect. Very fine details or small elements should be avoided, as they may lose definition. The design should be conceived as a volumetric block, favoring compact shapes for a better three-dimensional result.

vector formats: *.ai .svg .eps .cdr .pdf*
Image formats: *.jpg .png .tif .psd .psd (images with a min. of 300dpi)*

TYPE OF PRODUCTS

· Aprons
· Caps
· T-shirts
· Hoodies
· Sweatshirts
· Polos

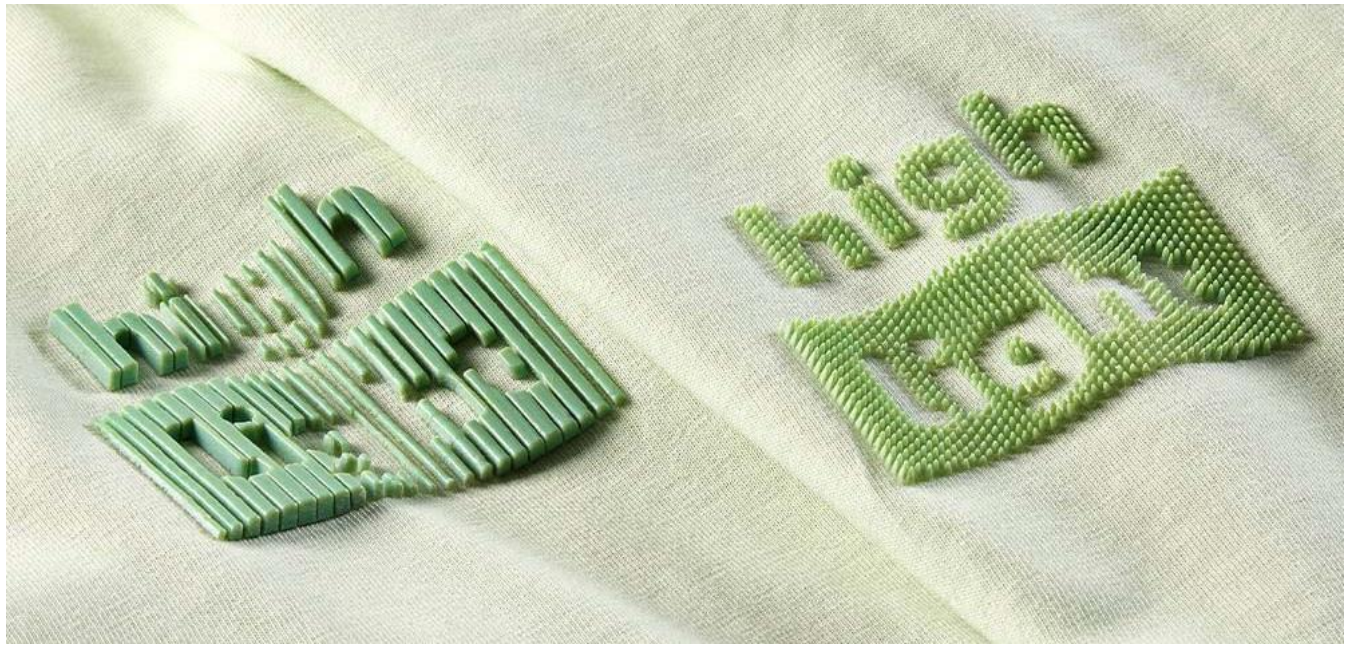
ADVANTAGES

· 3D effect with a glossy finish
· Full colour with good definition
· High visual impact

CONSTRAINTS

× Lower flexibility on curved surfaces
× May yellow with UV exposure
× Sensitive to high heat
× Strong impact may cause the resin to crack

DIGITAL 3D



3D digital textile printing creates raised effects directly on the fabric through material deposition, resulting in a real volumetric effect and a distinctive texture. It is suitable for simple and well-structured designs, delivering strong visual impact, although at a higher cost compared to traditional printing.

DIGITAL 3D

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	5 mm
Minimum letter height (negative)	Text	6 mm
Minimum line thickness (positive)		1,5 mm
Maximum prinitng height		5 mm
Colours		CMYK
Full Colour / Images		No
Max. number of colours		4
Logo Format		Vector
Ease of registration		Ok

vector formats: *.ai .svg .eps .cdr .pdf*

TYPE OF PRODUCTS

· T-shirts
· Hoodies
· Sweatshirts
· Polos

ADVANTAGES

· Strong distinctive visual impact compared to traditional printing
· Creation of depth and texture effects
· High-relief printing directly on the product

CONSTRAINTS

× Not suitable for very small text/details
× Higher cost than standard printing
× Recommended for simpler, well-structured designs

DTG

DTG (Direct to Garment) is a direct-to-fabric digital printing technique that allows high-quality, highly detailed full-colour image reproduction. It provides a soft and natural feel, making it ideal for cotton, although it requires proper washing care and performs less effectively on polyester.

DTG 3D combines digital printing with embossing, creating a three-dimensional effect with volume and strong visual impact. It allows full colour with texture, but is more sensitive to use and washing, and requires adapted designs to ensure the embossed effect is achieved.

DTG

DIRECT TO GARMENT

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**1,5 mm**
Minimum letter height (negative)	Text	**1,7 mm**
Minimum line thickness (positive)		**0,3 mm**
Minimum line thickness (negative)		**0,4 mm**
Colours		**CMYK**
Full Colour / Images		**Yes**
Logo Format		**Vector/Image**
Ease of registration		**Ok**

vector formats: *.ai .svg .eps .cdr .pdf*
image formats: *.jpg .png .tif .psd .psd (images with min. of 300dpi)*

TYPE OF PRODUCTS

· T-shirts
· Hoodies
· Sweatshirts
· Polos
· Cotton fabrics

ADVANTAGES

· High detail and photographic quality
· Full colour with no colour limitations
· Soft touch on the fabric

CONSTRAINTS

× Pre-treatment required for dark garments
× Special washing care required
× Polyester delivers inferior results compared to 100% cotton substrates

DTG 3D

DIRECT TO GARMENT 3D

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**6 mm**
Colours		**CMYK**
Full Colour / Images		**Yes**
Logo Format		**Vector/Image**
Relief Height		**1 / 2 mm**

Technical Note – Direct to Garment 3D (DTG 3D)

The **DTG 3D** is a technique based on printing **fine lines** that create a raised, embossed effect. Whenever the design is an image, it must be **converted into a linear pattern** to allow the formation of volume during the printing process.

The characteristic raised effect of this technique is built on a white base, so the **presence of visible white at the foundation of the customization** is normal.

For this reason, we recommend its use on **light-coloured products**, where this effect is less noticeable and the final result is more harmonious.

TYPE OF PRODUCTS

· T-shirts
· Hoodies
· Sweatshirts
· Polos
· Cotton fabrics

ADVANTAGES

· Combines detail with embossed effect
· Full colour with volume
· Differentiation compared to standard DTG

CONSTRAINTS

× May crack with intensive use
× Sensitive to washing
× Slower and more expensive process than standard DTG

vector formats: *.ai .svg .eps .cdr .pdf* | ***image formats:*** *.jpg .png .tif .psd .psd (images with min. of 300dpi)*

EMBROIDERY

Embroidery consists of applying threads directly onto the fabric, creating a textured, raised finish with a premium look. It is a highly durable and wear-resistant technique, ideal for clothing and accessories. It works best with simple and well-defined designs, which may require adjustments in highly complex cases.

Full-colour embroidery uses digital technology to reproduce multicolor designs and gradients without the need for thread changes, allowing greater creative freedom. However, it remains subject to the limitations of embroidery, making it less suitable for very small details and involving a more complex and costly process.

EMBROIDERY

FULL COLOUR

EMBROIDERY

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)		**6 mm**
Minimum letter height (negative)		**9 mm**
Minimum line thickness (positive)		**1,5 mm**
Minimum line thickness (negative)		**2 mm**
Colours		**Dedicated colour palette**
Full Colour / Gradients		**No**
Max. Number of colours		**4**
Logo format		**Vector**
Ease of registration		**Ok**

TYPE OF PRODUCTS

· Fabric bags (tote bags + cotton bags)
· Backpacks, coolers, and toiletry bags
· T-shirts, hoodies, sweatshirts, and polos
· Caps, towels, aprons, gloves, blankets, etc.

ADVANTAGES

· High durability
· Premium and professional finish

CONSTRAINTS

× No gradients, shadows or images
× Complex logos may be altered during conversion
× Stretch fabrics may cause wrinkling

vector formats: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

EMBROIDERY

COLOUR PALETTE – Thread catalogue with over 150 colours

Yellows/Oranges

Reds

Pinkss/Lilacs/Purples

Blues

Greens

Brownss/Beiges

Greys/Black/White

EMBROIDERY

FULL COLOUR

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**6 mm**
Minimum letter height (negative)	Text	**9 mm**
Minimum line thickness (positive)		**1,5 mm**
Minimum line thickness (negative)		**2 mm**
Colours		**Full Colour**
Full Colour / Gradients		**Yes**
Logo format		**Vector**
Ease of registration		**Ok**

TYPE OF PRODUCTS

· Aprons
· Backpacks
· Caps
· Towels and blankets
· T-shirts, hoodies, Sweatshirts and polos

ADVANTAGES

· Allows designs with gradients
· Reduces thread waste

CONSTRAINTS

× More complex and costly process than standard embroidery
× Complex logos may be altered during conversion
× Not suitable for fine details/small lettering

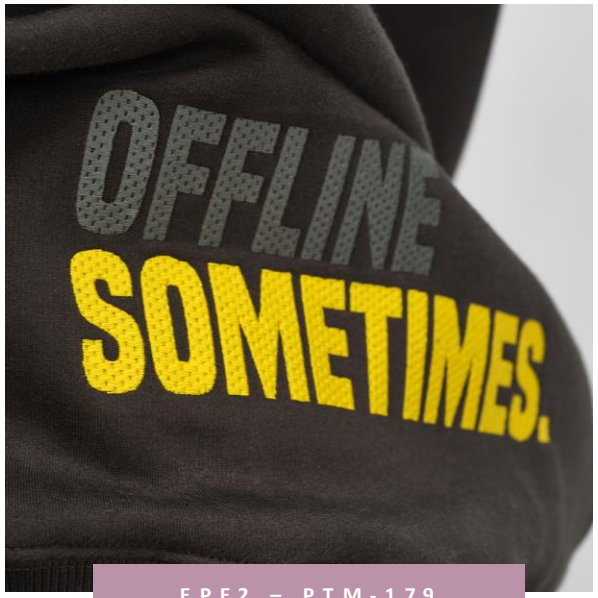
vector formats: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

Note: Whenever the selected embroidery variant does not allow the desired quality to be achieved (small details/small text), the classic embroidery technique will be applied to ensure the best possible final result.

EMBROIDERY

SPECIAL STITCHES

EPE1



EPE2 – PTM-179

EPE2 – PTM-197

EPE2 – PTG-011

Embroidery with special stitches uses different types of finishes to create distinctive textures and visual effects, enhancing the logo compared to traditional embroidery. It is suitable for simple designs with good line thickness, and is not suitable for very fine details.

EMBROIDERY

SPECIAL STITCHES

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)		**6 mm**
Minimum letter height (negative)		**9 mm**
Minimum line thickness (positive)		**1,5 mm**
Minimum line thickness (negative)		**2 mm**
Colours		**Dedicated colour palette**
Full Colour / Gradients		**No**
Max. Number of colours		**4**
Logo format		**Vector**
Ease of registration		**Ok**

vector format: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

TYPE OF PRODUCTS

· T-shirts
· Hoodies
· Sweatshirts
· Polos

ADVANTAGES

· Differentiation compared to standard embroidery
· Textures that enhance the logo

CONSTRAINTS

× Not suitable for fine details/small lettering
× Higher cost than standard embroidery
× Complex logos may be altered during conversion
× No gradients, shadows or images

Note: Whenever the selected embroidery variant does not allow the desired quality to be achieved (small details/small text), the classic embroidery technique will be applied to ensure the best possible final result.

EMBROIDERY

3D embroidery uses a foam base applied beneath the stitches, creating a pronounced raised effect and a strong three-dimensional visual impact. It is ideal for simple logos with solid areas and is not suitable for fine details or lightweight fabrics. It may also experience wear with intensive washing.

High-density embroidery is produced with a high stitch density, creating relief without the use of foam and ensuring a consistent and uniform finish. It offers a sophisticated and durable effect, but may make the fabric heavier and is not suitable for designs with very small elements.

This technique combines embroidery with laser cutting, allowing the creation of patches with custom shapes and a precise finish. The result is consistent and distinctive, although the process is more time-consuming and requires design adaptation, especially in areas with fine details.

EMBROIDERY

3 D

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**10 mm**
Minimum line thickness (positive)		**1,5 mm**
Maximum line thickness (positive)		**5 mm**
Colours		**Dedicated colour palette**
Full Colour / Gradients		**No**
Max. number of colours		**2**
Logo format		**Vector**
Ease of registation		**Ok**

TYPE OF PRODUCTS

· Backpacks, toiletry bags
· Caps
· Towels and blankets
· T-shirts, hoodies, sweatshirts and polos

ADVANTAGES

· High relief and visual impact
· Impactful and tactile

CONSTRAINTS

× Filling may deform with repeated washing
× Not suitable for designs with fine details
× Not appropriate for thin or elastic fabrics

vector format: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

Note: Whenever the selected embroidery variant does not allow the desired quality to be achieved (small details/small text), the classic embroidery technique will be applied to ensure the best possible final result.

EMBROIDERY

HIGH-DENSITY

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)		**10 mm**
Minimum line thickness (positive)		**1,5 mm**
Minimum line thickness (negative)		**5 mm**
Colours		**Dedicated colour palette**
Full Colour / Gradients		**No**
Max. number of colours		**4**
Logo format		**Vector**
Facilidade de registo		**Ok**

TYPE OF PRODUTS

· T-shirts
· Hoodies
· Sweatshirts
· Polos

ADVANTAGES

· High relief and visual impact
· Good coverage and embroidery uniformity

CONSTRAINTS

× Higher cost due to increased thread consumption
× Not suitable for designs with fine details
× Heavier finish – may distort lightweight fabrics

vector format: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

Note: Whenever the selected embroidery variant does not allow the desired quality to be achieved (small details/small text), the classic embroidery technique will be applied to ensure the best possible final result.

EMBROIDERY

LASER CUTTING

TECHNICAL SPECIFICATIONS

Min. letter height (positive)		**60 mm**
Min. line thickness (positive)		**5 mm**
Colours		**Dedicated colour palette**
Full Colour / Gradients		**No**
Max. number of colours		**4**
Logo format		**Vector**
Ease of registration		**Ok**

TYPE OF PRODUCTS

· T-shirts
· Hoodies
· Sweatshirts
· Polos

ADVANTAGES

· Allows custom shapes
· Precise and consistent cutting
· Distinct line and patch colours

CONSTRAINTS

× The combination of two processes increases lead time
× Requires design adaptation to the cut
× Not suitable for very fine cut details
× Limited colours, approximated to the product

vector format: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

Note: Whenever the selected embroidery variant does not allow the desired quality to be achieved (small details/small text), the classic embroidery technique will be applied to ensure the best possible final result.

EMBROIDERY

Cut yarn embroidery creates a textured effect by cutting the threads after application, resulting in a fringe-like or irregular surface finish. It is suitable for simple designs and larger areas, but may show greater wear with intensive use.

Sequin embroidery applies decorative elements directly onto the fabric, creating a bright and highly visible effect. It is a technique focused on visual impact and differentiation, not suitable for fine details and potentially less resistant to aggressive washing.

Outline embroidery uses only threads to outline the design without filling, creating a light, minimal and elegant effect with some volume. It is suitable for simple, linear logos, but may lose impact at small sizes and is not appropriate for very fine details.

EMBROIDERY

CUT LINES

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**6 mm**
Minimum letter height (negative)	**Text**	**9 mm**
Minimum line thickness (positive)		**1,5 mm**
Minimum line thickness (negative)		**2 mm**
Colours		**Dedicated colour palette**
Full Colour / Gradients		**No**
Max. number of colours		**4**
Logo format		**Vector**
Ease of registration		**Ok**

vector format: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

TYPE OF PRODUCTS

· T-shirts
· Hoodies
· Sweatshirts
· Polos

ADVANTAGES

· Strong visual impact
· Distinctive texture

CONSTRAINTS

× Limited to simple designs and large areas
× Not suitable for designs with fine details
× Greater wear with intensive use

Note: Whenever the selected embroidery variant does not allow the desired quality to be achieved (small details/small text), the classic embroidery technique will be applied to ensure the best possible final result.

EMBROIDERY

SEQUINS

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)		**60 mm**
Minimum line thickness (positive)		**5 mm**
Colours		**Dedicated colour palette**
Full Colour / Gradients		**No**
Max. number of colours		**1**
Logo format		**Vector**
Ease of registration		**Ok**

TYPE OF PRODUCTS

· T-shirts
· Hoodies
· Sweatshirts
· Polos

ADVANTAGES

· Bright and eye-catching effect
· Good visibility from a distance

CONSTRAINTS

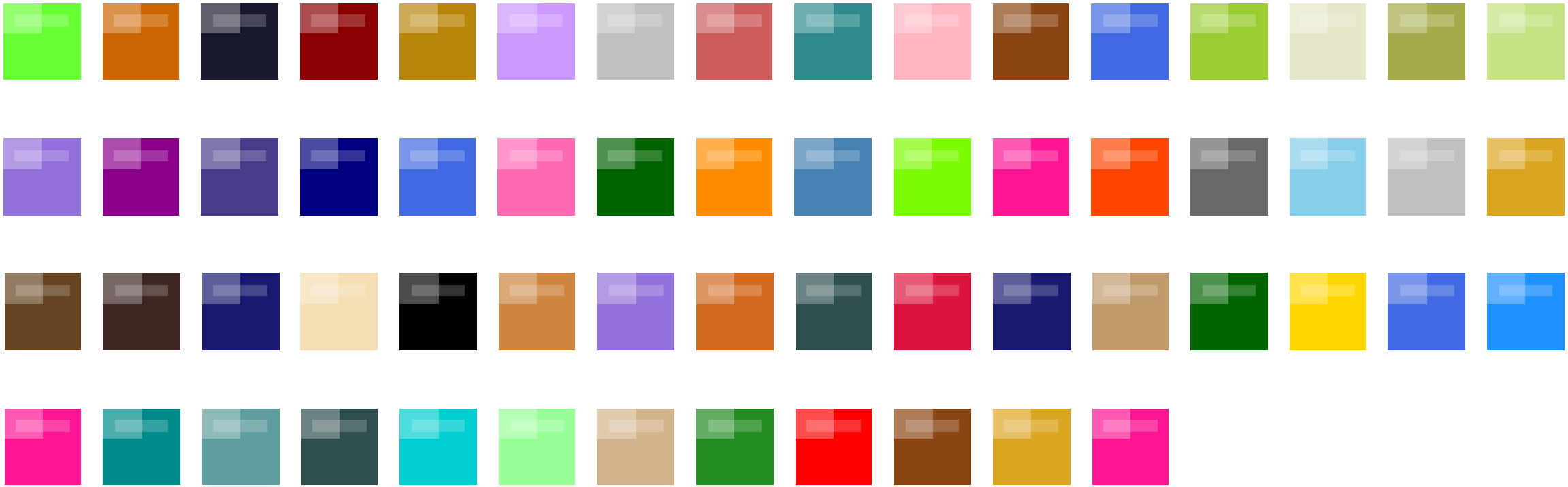
× Not suitable for designs with fine details
× Sequins may detach with aggressive washing
× May cause discomfort in contact areas

vector format: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

Note: Whenever the selected embroidery variant does not allow the desired quality to be achieved (small details/small text), the classic embroidery technique will be applied to ensure the best possible final result.

EMBROIDERY

SEQUINS



EMBROIDERY

OUTLINE

24

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)		**60 mm**
Minimum line thickness (positive)		**5 mm**
Colours		**Dedicated colour palette**
Full Colour / Images		**No**
Max. number of colours		**1**
Logo format		**Vector**
Ease of registration		**Ok**

TYPE OF PRODUCTS

· T-shirts
· Hoodies
· Sweatshirts
· Polos

ADVANTAGES

· Light and elegant embroidery
· Good definition in simple designs

CONSTRAINTS

× Outline only - no fill
× Very thin lines are not reproducible
× Recommended for simple, linear designs
× May lose impact at small sizes

vector format: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

Note: Whenever the selected embroidery variant does not allow the desired quality to be achieved (small details/small text), the classic embroidery technique will be applied to ensure the best possible final result.

EMBROIDERY

Embroidered patch consists of producing the logo separately, or applying it onto a fabric base, which is then attached to the product by stitching, ensuring consistency and versatility. It allows reuse and easy application, although it adds some thickness to the item and is limited to the patch area.

The velcro patch is a variant of the embroidered patch with a hook-and-loop fastening system, allowing quick application and removal. It maintains the advantages of consistency and reusability, making it ideal for products that require flexibility, with the limitation of added thickness and a defined application area.

PATCH

VELCRO PATCH

EMBROIDERY

PATCH

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**6 mm**
Minimum letter height (negative)	Text	**9 mm**
Minimum line thickness (positive)		**1,5 mm**
Minimum line thickness (negative)		**2 mm**
Colours		**Dedicated colour palette / Image**
Full Colour / Gradients		**Yes**
Max. number of colours		**4**
Logo format		**Vector / Image**
Ease of registration		**N/A**

vector format: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

TYPE OF PRODUCTS

· Aprons
· Backpacks
· Blankets
· Caps
· Towels
· T-shirts, hoodies, Sweatshirts and polos

ADVANTAGES

· Reusable and versatile
· Easy application and replacement
· Good consistency across units

CONSTRAINTS

× May add thickness to the item
× Limited to the patch area

Note: Whenever the selected embroidery variant does not allow the desired quality to be achieved (small details/small text), the classic embroidery technique will be applied to ensure the best possible final result.

EMBROIDERY

VELCRO PATCH

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)		**6 mm**
Minimum letter height (negative)		**9 mm**
Minimum line thickness (positive)		**1,5 mm**
Minimum line thickness (negative)		**2 mm**
Colours		**Dedicated colour palette / Image**
Full Colour / Images		**No**
Max. number of colours		**4**
Logo format		**Vector**
Ease of registration		**N/A**

vector format: *.ai .svg .eps .cdr .pdf (pdf is only accepted if the content is vector-based)*

TYPE OF PRODUCTS

· Aprons
· Backpacks
· Blankets
· Caps
· Towels
· T-shirts, hoodies, Sweatshirts and polos

ADVANTAGES

· Reusable and versatile
· Easy application and replacement
· Good consistency across units

CONSTRAINTS

× May add thickness to the item
× Limited to the patch area

Note: Whenever the selected embroidery variant does not allow the desired quality to be achieved (small details/small text), the classic embroidery technique will be applied to ensure the best possible final result.

SUBLIMATION

Sublimation is a heat-transfer printing technique in which the ink undergoes a chemical reaction with the treated material, resulting in a smooth, texture-free customization. It allows full-colour reproduction with excellent durability and is ideal for light-coloured, pre-treated materials, working only on flat cylindrical areas.

SUBLIMATION

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**1,5 mm**
Minimum letter height (negative)	Text	**1,7 mm**
Minimum line thickness (positive)		**0,3 mm**
Minimum line thickness (negative)		**0,4 mm**
Colours		**CMYK**
Full Colour / Images		**Yes**
Logo format		**Vector/Image**
Ease of registration		**N/A**

vector format: *.ai .svg .eps .cdr .pdf*
image format: *.jpg .png .tif .psd .psd (images with a min. of 300dpi)*

TYPE OF PRODUCTS

· Bottles
· Mugs

ADVANTAGES

· Full colour without limitations
· No texture (ink integrated into the material)
· Excellent durability (does not peel)

CONSTRAINTS

× Only for light-coloured materials
× Only products with sublimation pre-treatment

DIGITAL UV

UV Digital (Plano) A impressão UV digital consiste na aplicação direta de tinta sobre superfícies rígidas, com secagem imediata por luz ultravioleta, permitindo elevada definição e reprodução em full colour. É uma técnica rápida e versátil, limitada a superfícies planas ou ligeiramente curvas.

FLAT

UV Digital Circular allows direct printing on cylindrical objects, such as bottles or cups, ensuring design continuity on curved surfaces. It offers good quality and definition, although it depends on the regularity of the object to avoid distortions.

CIRCULAR

DIGITAL UV

FLAT

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**1,5 mm**
Minimum letter height (negative)	Text	**1,7 mm**
Minimum line thickness (positive)		**0,3 mm**
Minimum line thickness (negative)		**0,4 mm**
Colours		**CMYK**
Full Colour / Images		**Yes**
Logo format		**Vector/Image**
Ease of registration		**Ok**

vector format: *.ai .svg .eps .cdr .pdf*
image format: *.jpg .png .tif .psd .psd (images with a min. of 300dpi)*

TYPE OF PRODUCTS

· Bottles, mugs
· Cables, earbuds, headphones, power banks, speakers
· Notebooks, folders, pens
· Food flasks, lunch boxes, canisters

ADVANTAGES

· Full colour with high definition
· Instant curing (fast process)
· Good adaptability to various materials

CONSTRANGIMENTOS

× Limited to flat or slightly curved surfaces
× May require prior treatment (primer)

DIGITAL UV

CIRCULAR

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**1,5 mm**
Minimum letter height (negative)	Text	**1,7 mm**
Minimum line thickness (positive)		**0,3 mm**
Minimum line thickness (negative)		**0,4 mm**
Colours		**CMYK**
Full Colour / Images		**Yes**
Logo format		**Vector/Image**
Ease of registration		**N/A**

vector format: *.ai .svg .eps .cdr .pdf*
image format: *.jpg .png .tif .psd .psd (images with a min. of 300dpi)*

TYPE OF PRODUCTS

· Cylindrical bottles
· Travel cups and mugs
· Cylindrical canisters
· Ballpoint pens

ADVANTAGES

· Ideal for bottles and other rounded objects
· Direct finish on the product
· Continuous printing on curved surfaces

CONSTRAINTS

× Limited to regular cylindrical surfaces; irregular areas may distort the printed composition
× Adhesion depends on the material

DTF UV

UV DTF consists of printing onto a film that is then manually applied to the product, allowing full-colour customization without the need for direct printing. It is a versatile solution for small batches, although the application process may influence the final result.

DTF UV

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**5 mm**
Minimum letter height (negative)	Text	**6 mm**
Minimum line thickness (positive)		**2 mm**
Minimum line thickness (negative)		**1,5 mm**
Colours		**CMYK**
Full Colour / Images		**Yes**
Logo format		**Vector/Image**
Ease of registration		**Ok**

vector format: *.ai .svg .eps .cdr .pdf*
image format: *.jpg .png .tif .psd .psd (images with a min. of 300dpi)*

TYPE OF PRODUCTS

· Bottles, mugs, thermos,
· Bowls, canisters, foodflask,
· Cables, earbuds, headphones, powerbank, speaker, wireless chargers,...
· Lunchboxes, boards

ADVANTAGES

· Application without the need for direct printing
· Versatile across different surfaces
· Ideal for small batches

CONSTRANGIMENTOS

× Not recommended for very small text
× May peel off on rough surfaces
× Manual application may affect the final result

FIRING

Firing is a technique that uses ceramic decals fired at high temperatures, permanently integrating the design into the material. It offers high resistance and durability, making it ideal for products subject to intensive use, although it is limited to specific materials.

FIRING

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**1,5 mm**
Minimum letter height (negative)	Text	**1,7 mm**
Minimum line thickness (positive)		**0,3 mm**
Minimum line thickness (negative)		**0,4 mm**
Colours		**Dedicated colour palette**
Full Colour / Images		**No**
Max. number of colours		**3**
Logo format		**Vector**
Ease of registration		**Ok**

TYPE OF PRODUCTS

· Bowls
· Canisters
· Lunchbox
· Mugs

ADVANTAGES

· High durability (wash-resistant)
· Permanent finish on the material
· Ideal for intensive use
· Suitable for both cylindrical and flat products

CONSTRAINTS

× Colour matching may vary after firing
× Limited to specific materials
× More demanding setup requirement

vector format: *.ai .svg .eps .cdr .pdf (pdf s only accepted if the content is vector-based)*

FIRING

AVAILABLE COLOURS

Black	447 C	431 C	430 C	423 C	427 C	Cool Gray 4 C	434 C	White	656 C
Gold (mate)	7502 C	4515 C	483 C	7601 C	7582 C	464 C	723 C	463 C	4665 C
727 C	4655 C	202 C	7608 C	1815 C	200 C	7619 C	7621 C	158 C	1585 C
159 C	124 C	7753 C	117 C	605 C	Yellow 012 C	612 C	357 C	2265 C	7735 C
322 C	2237 C	7476 C	7740 C	7739 C	7741 C	376 C	2301 C	377 C	284 C
2141 C	2142 C	279 C	2143 C	7682 C	7461 C	2193 C	2390 C	654 C	2161 C
2965 C									

ⓘ *Colours are approximations – natural variations occur during the vitrification process above 600°C*

HOTSTAMPING

Hot stamping uses heat and pressure to mark the design onto the material through a metal die, creating an embossed or debossed effect without colour. It results in an elegant and sophisticated finish, being dependent on the material's characteristics and requiring prior validation.

Foil hot stamping adds a metallic or pigmented colour layer to the hot stamping process, creating a visually impactful finish. It provides a luxurious effect, although it is less durable and limited to the available foil colours.

HOTSTAMPING

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**3 mm**
Minimum letter height (negative)	Text	**3,5 mm**
Minimum line thickness (positive)		**0,4 mm**
Minimum line thickness (negative)		**0,5 mm**
Colours		**---**
Full Colour / Images		**No**
Logo format		**Vector**
Ease of registration		**Ok**

TYPE OF PRODUCTS

· Cork items (canisters, coasters, notebooks, ...)
· Backpacks
· Notebook and agenda covers
· Toiletry bags
· Leather items

ADVANTAGES

· Strong visual impact
· Premium and sophisticated finish

CONSTRAINTS

× Very fine lines and details lose definition
× No gradients or full colour
× Requires setup per design

***vector format**: .ai .svg .eps .cdr .pdf (pdf s only accepted if the content is vector-based)*

The effectiveness of this technique depends on a set of variables such as material, finish, texture, and reaction to heat. Therefore, **prior validation and testing are required** to ensure the quality of the final result.

HOTSTAMPING

FOIL

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	**Text**	**3 mm**
Minimum letter height negative)	**Text**	**3,5 mm**
Minimum line thickness (positive)		**0,5 mm**
Minimum line thickness (negative)		**0,7 mm**
Colours		**1 colour foil**
Full Colour / Images		**No**
Logo format		**Vector**
Ease of registration		**N/A**

TYPE OF PRODUCTS

· Cork items (canisters, coasters, notebooks, ...)
· Backpacks
· Notebook and notepad covers
· Leather items

ADVANTAGES

· Creates a luxurious and eye-catching look for the design
· Strong visual impact

CONSTRAINTS

× Less durable finish than hot stamping
× Limited to available foil colours
× Very fine lines and details lose definition
× Personalization does not always produce a debossed effect

***vector format**: .ai .svg .eps .cdr .pdf (pdf s only accepted if the content is vector-based)*

The effectiveness of this technique depends on a set of variables such as material, finish, texture, and reaction to heat. Therefore, **prior validation and testing are required** to ensure the quality of the final result.

EMBOSSING

Embossing with filling creates a raised effect on the fabric through heat, pressure, and the use of filling material, resulting in a pronounced tactile effect without adding colour. It is a premium technique, dependent on the material and not suitable for very fine details.

This technique combines embossing with colour application via transfer, merging embossing and printing in the same design. It allows greater visual impact, although it requires file adaptation and may present limitations in colour fidelity over the embossed areas.

High-frequency embossing consists of creating a raised logo using a mould, with the deposition of polymer material, allowing a three-dimensional finish with full-colour reproduction. The result is consistent and durable, making it suitable for simple and well-structured designs.

EMBOSSING

WITH FILLING

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)		**10 mm**
Minimum line thickness (positive)		**5 mm**
Colours		**---**
Full Colour / Images		**No**
Logo format		**Vector**
Ease of registration		**Ok**

TYPE OF PRODUCTS

· T-shirts, hoodies, sweatshirts and polos
· Fabric bags (tote bags + cotton bags)
· Towels

ADVANTAGES

· Subtle and sophisticated finish
· Good durability

CONSTRAINTS

× Die required per design – high setup cost
× No colour application
× Limited to suitable materials – sufficient rigidity required
× Not recommended for very small details or fine lines

***vector format**: .ai .svg .eps .cdr .pdf (pdf s only accepted if the content is vector-based)*

EMBOSSING

WITH TRANSFER

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)	Text	**10 mm**
Minimum line thickness (positive)		**5 mm**
Colours		**---**
Full Colour / Images		**No / Yes**
Logo format		**Vetor / Imagem**
Ease of registration		**Ok**

vector format: *.ai .svg .eps .cdr .pdf*
image format: *.jpg .png .tif .psd .psd (images with mín. of 300dpi)*

A vector file is always required for the die. Only transfer supports images.

TYPE OF PRODUCTS

· T-shirts
· Hoodies
· Sweatshirts
· Polos
· Cotton fabrics

ADVANTAGES

· Combination of embossing and colour
· Distinctive finish
· Strong visual emphasis of the design

CONSTRAINTS

× Die required per design – high setup cost
× No colour application
× Limited to suitable materials – sufficient rigidity required
× Not recommended for very small details or fine lines
× Some colour may be lost when the transfer is applied over the embossing

EMBOSSING

HIGH FREQUENCY

TECHNICAL SPECIFICATIONS

Minimum letter height (positive)		**10 mm**
Espessura mín. de linha (positivo)		**5 mm**
Colours		**CMYK**
Full Colour / Gradiente		**Yes**
Logo format		**Vector**
Ease of registration		**Ok**

TYPE OF PRODUCTS

· T-shirts, hoodies, Sweatshirts and polos
· Caps

ADVANTAGES

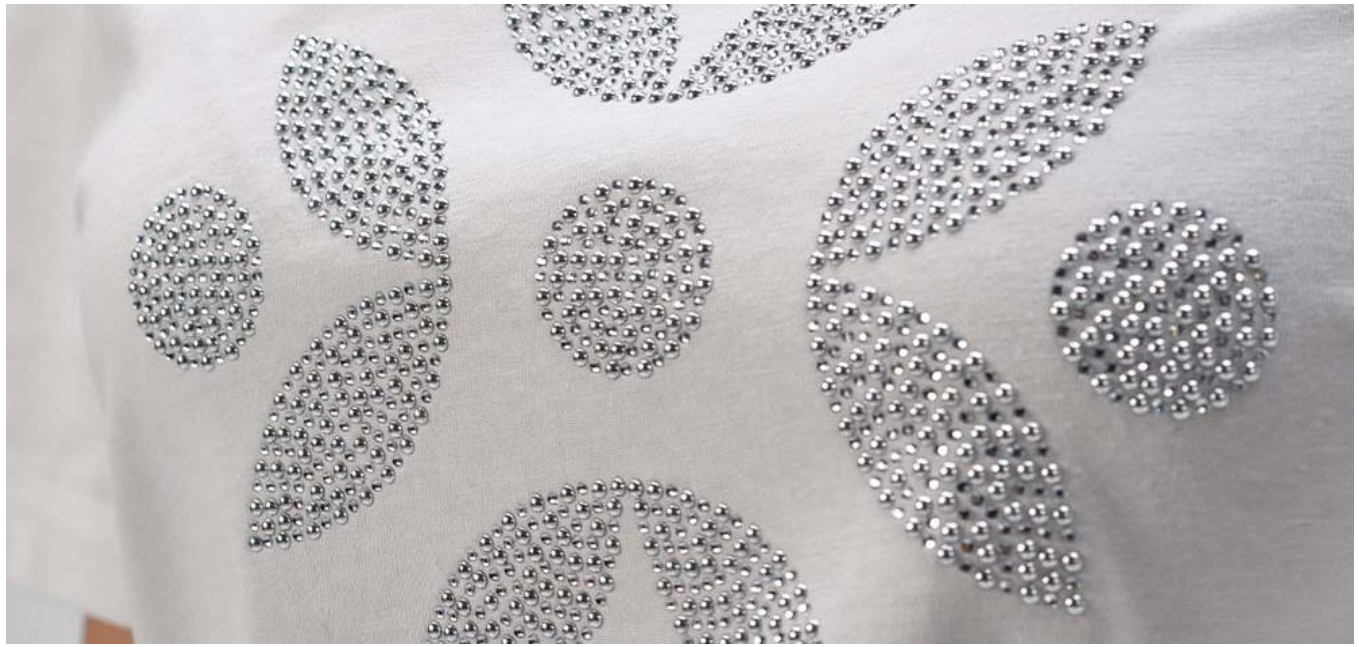
· Consistent and well-defined embossing
· Good durability
· Full-colour reproduction

CONSTRAINTS

× Limited to textile materials
× Die required per design – high setup cost
× Not suitable for fine details and lines

***vector format**: .ai .svg .eps .cdr .pdf (pdf s only accepted if the content is vector-based)*

STRASS



Rhinestone application consists of placing decorative stones on the fabric, creating a bright, high-impact visual effect. It is suitable for simple designs and well-defined areas, but may have limitations in durability and resistance to intensive washing.

STRASS

TECHNICAL SPECIFICATIONS

Minimum crystal size	**2mm**
Maximum crystal size	**4mm**
Colours	**Dedicated colour palette**
Full Colour / Images	**No**
Max. number of colours	**1**
Logo format	**Vector**
Ease of registration	**N/A**

TYPE OF PRODUCTS

· T-shirts
· Hoodies
· Sweatshirts
· Polos
· Cotton fabrics

ADVANTAGES

· Visual impact
· Strong aesthetic differentiation

CONSTRAINTS

× Not suitable for fine details/lettering
× Suitable for simple designs
× May detach with intensive use
× Sensitive to washing and friction

***vector format**: .ai .svg .eps .cdr .pdf (pdf s only accepted if the content is vector-based)*

TECHNICAL INFORMATION AND USAGE RECOMMENDATIONS

1 | Technical Note – Drinkware – Dishwasher Washing

Except for **firing and sublimation** techniques, all other personalization methods may experience wear when subjected to frequent dishwasher washing.

The combination of **high temperatures, aggressive detergents, and long wash cycles** can compromise the durability of the personalization.

Whenever possible, **hand washing** is recommended, avoiding the use of **abrasive sponges or materials** in order to preserve the quality of the marking.

2 | General Recommendations – Care for Textile Products

To ensure the durability of the customization and the preservation of the product, we recommend:

Wash **inside out**

Maximum temperature of **30°C**

Avoid using bleach or aggressive detergents

Do not tumble dry

Iron **inside out** and avoid direct contact with the customization

Following these recommendations helps preserve the quality of the print over time.

3 | Application of Customization Techniques

The final quality of any customization technique is directly dependent on the **graphic artwork provided by the client**.

All available techniques deliver consistent technical performance, provided that the file and design are suitable for their application. Therefore, the final result does not depend exclusively on the chosen technique, but rather on the **compatibility between the design and the customization method.**

For example, highly complex logos — such as crests, very detailed elements, or small-scale designs — may not be reproduced with full fidelity in certain techniques.

On the other hand, simpler compositions, such as typographic logos combined with clean and well-defined symbols, adapt easily to most techniques, ensuring a more consistent and effective result.

Whenever necessary, **file adjustments** or the **selection of the most suitable technique** may be recommended in order to ensure the best final quality.

4 | Correct Format for Sending Logos

Vector formats: .ai .svg .eps .cdr .pdf | **Image formats:** .jpg .png .tif .psd (images with a minimum of 300 dpi)

37 TECHNIQUES. ONE GUIDE.

Textile Screen Print · Screen Print · Circular Screen Print · Pad Printing · Textile DTF

Transfer Flex Standard · Transfer Flex Special · 3D Transfer · Laser · Circular Laser · Textile Laser · Embroidery (11 variants) •

Sublimation · Digital UV · Circular UV · Textile Digital UV · Firing · DTG · 3D DTG • Hotstamping · Foil · Embossing (4 variants) · DTF

UV · Strass · Textile Doming · Digital 3D