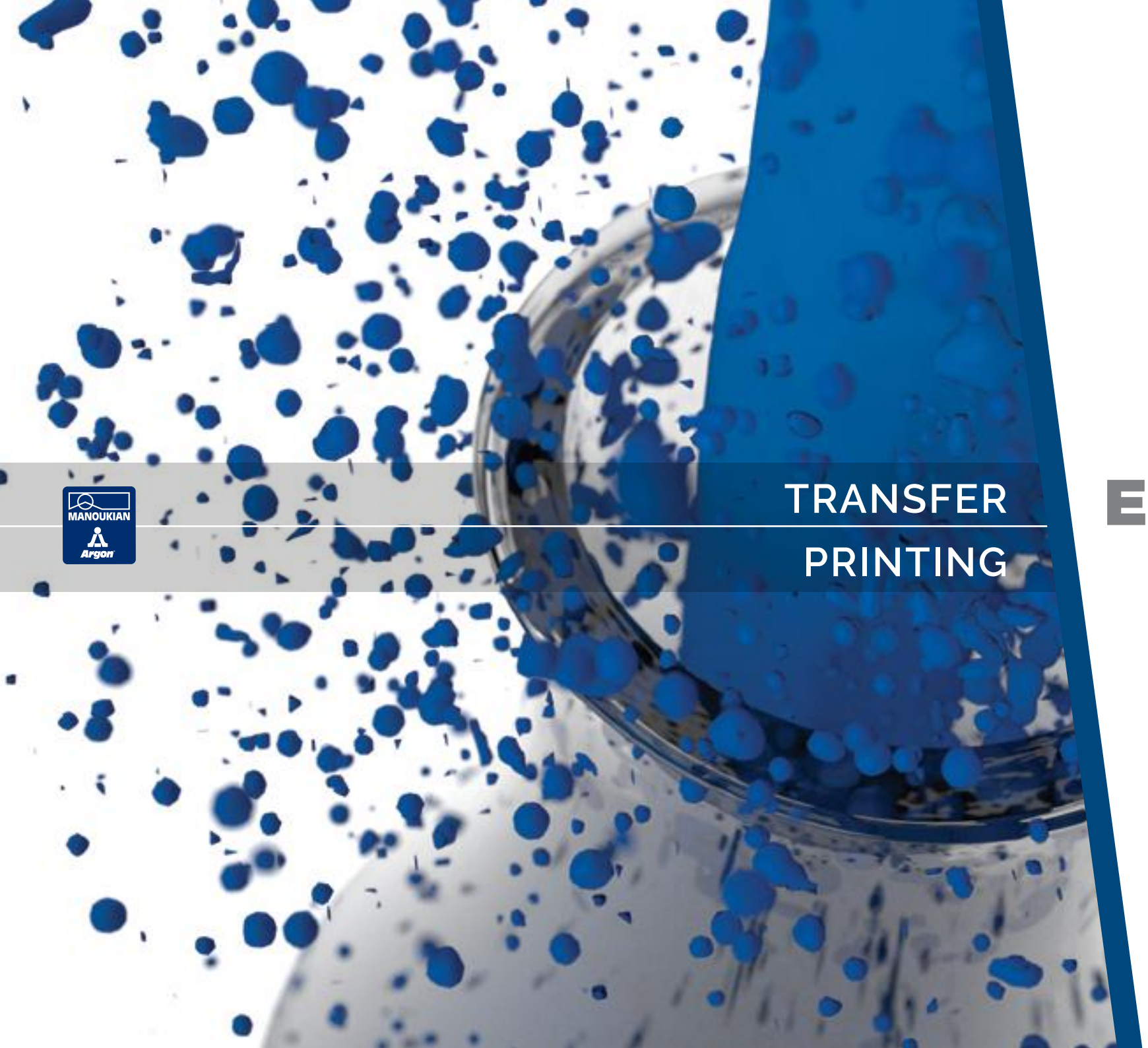
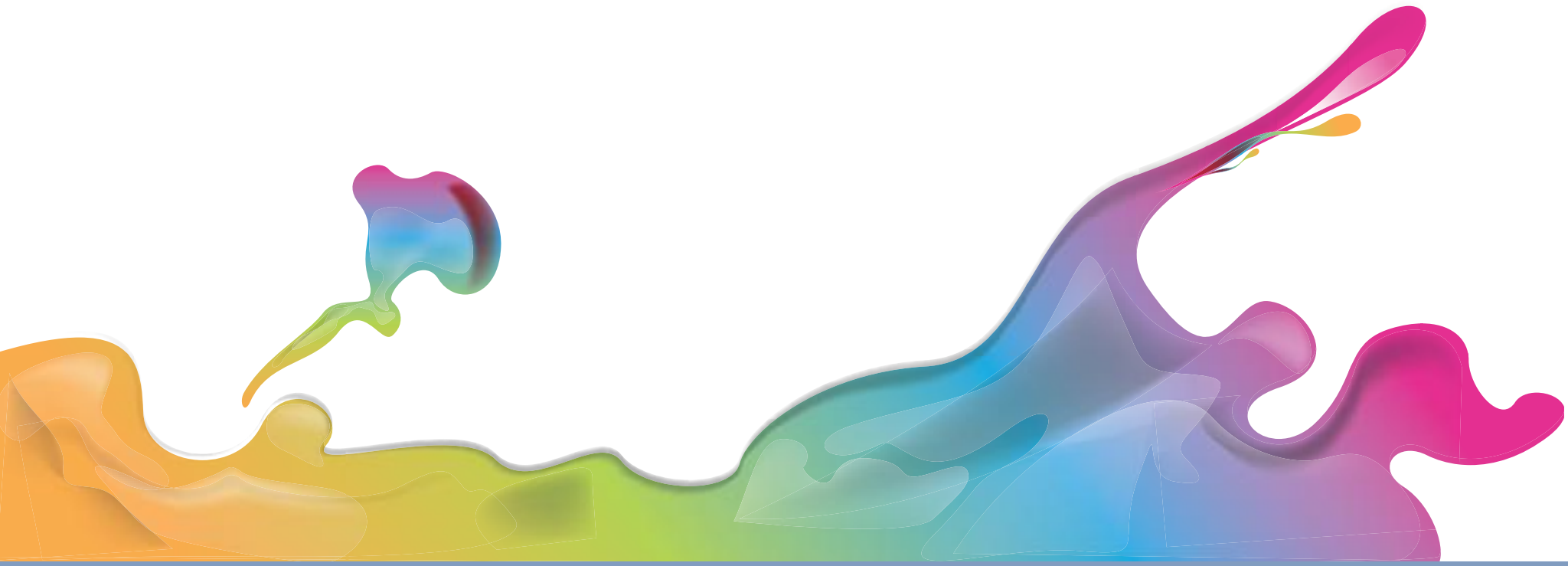


MANOUKIAN
Argon

TRANSFER PRINTING

EPTAINKS

TOPICS



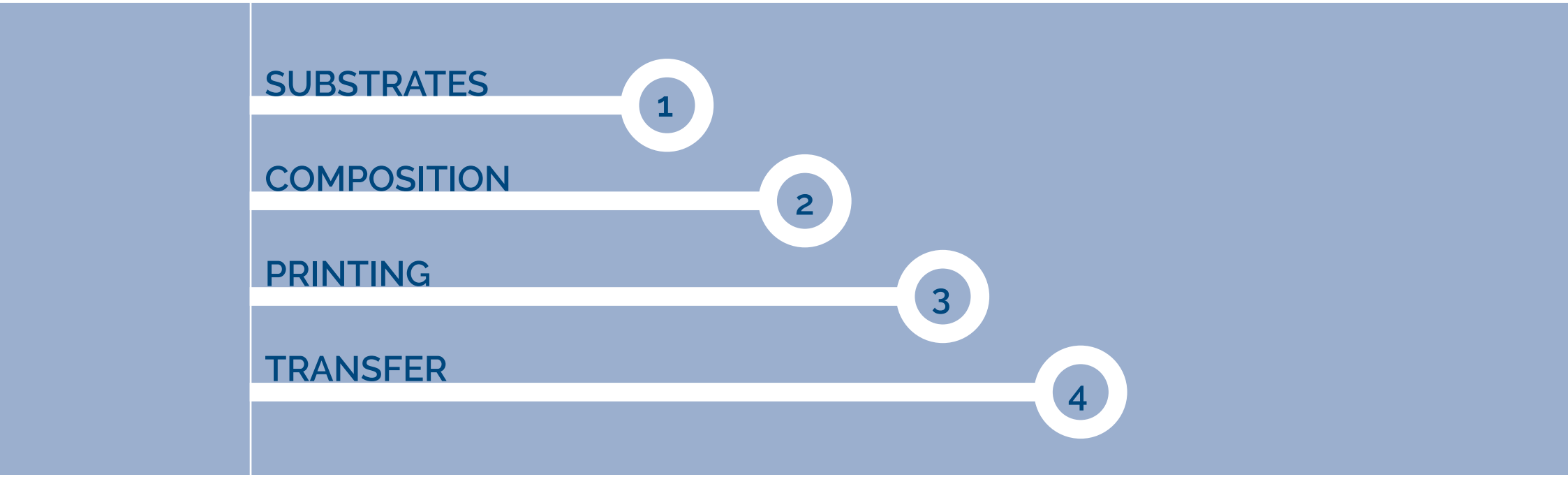
WHAT IS A TRANSFER SET

A transfer set is a succession of ink layers, chemically similar or different, that are first applied on a substrate and then transferred through heat onto a fabric.

WHY CHOOSING A TRANSFER PRINTING

- To apply the same design on different types of substrates
- To repeat the same design in different times and in a limited quantity
- To obtain a definition really close to "graphic" printing
- To optimize stocks of ready made garments
- To make decorations in difficult positions for direct printing

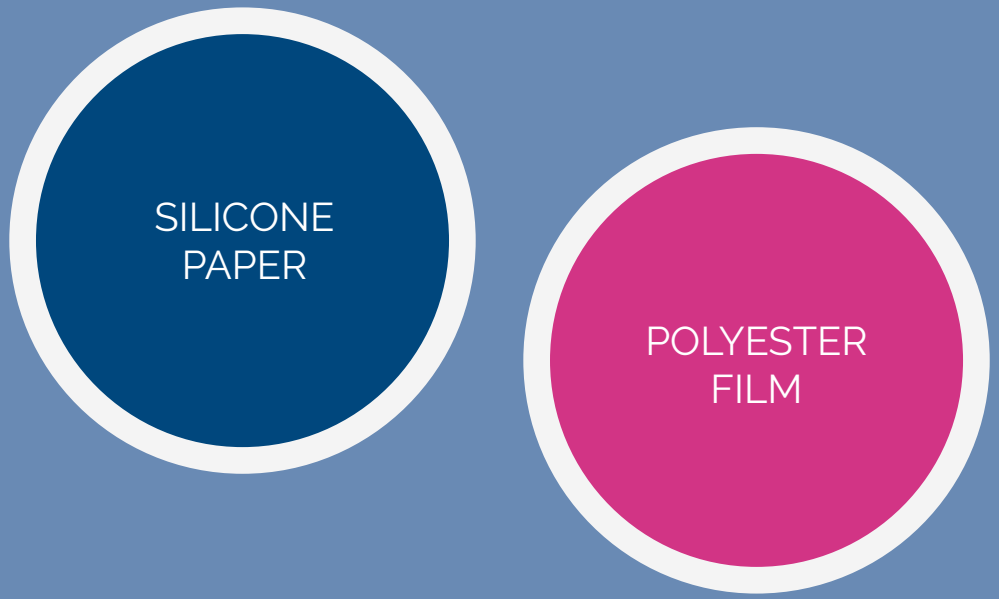
TRANSFER PREPARATION



SUBSTRATES

1

The substrates for transfer set are:



SUBSTRATES

1

The substrates must have these features:

- High stability to heat
- High stability to the used inks
- High release capacity

COMPOSITION

2

SILICONE PAPER or POLYESTER FILM

1	PROTECTION LAYER	Transparent layer for a higher fastness
2	GRAPHIC	Colours which compose the design (specular image)
3	BACKGROUND WHITE	It grants opacity onto dark substrates
4	ANTI-BLEEDING BARRIER	It protects the transfer design from possible colour migration on synthetic fabrics
5	ADHESIVE	It assure adhesion between fabric and transfer

PRINTING

3

The printing method for transfers is **wet on dry**:
each ink layer needs to be dried before the application of the successive one

The **squeegee** should always have a correct hardness in relation to the required effect:

HARD
High **definition**
Low **deposit**

SOFT
Low **definition**
High **deposit**

The screen should have a correct out of contact to achieve right printability and definition

TRANSFER

4

The transfer onto fabric occurs by means of **heat** and **pressure**.

The transfer adhesive melts and penetrates into the fabric:
once cold, it turns back solid and physically binds to the fabric

Transfer conditions depend on:

CLASSIFICATION

- TRANSFER WITH PLASTISOL INKS
- TRANSFER WITH WATER BASED INKS
- TRANSFER WITH SOLVENT BASED INKS
- TRANSFER FOR SPECIAL EFFECTS

TRANSFER WITH PLASTISOL INKS

TRADITIONAL PLASTISOL TRANSFER

HOT SPLIT TRANSFER

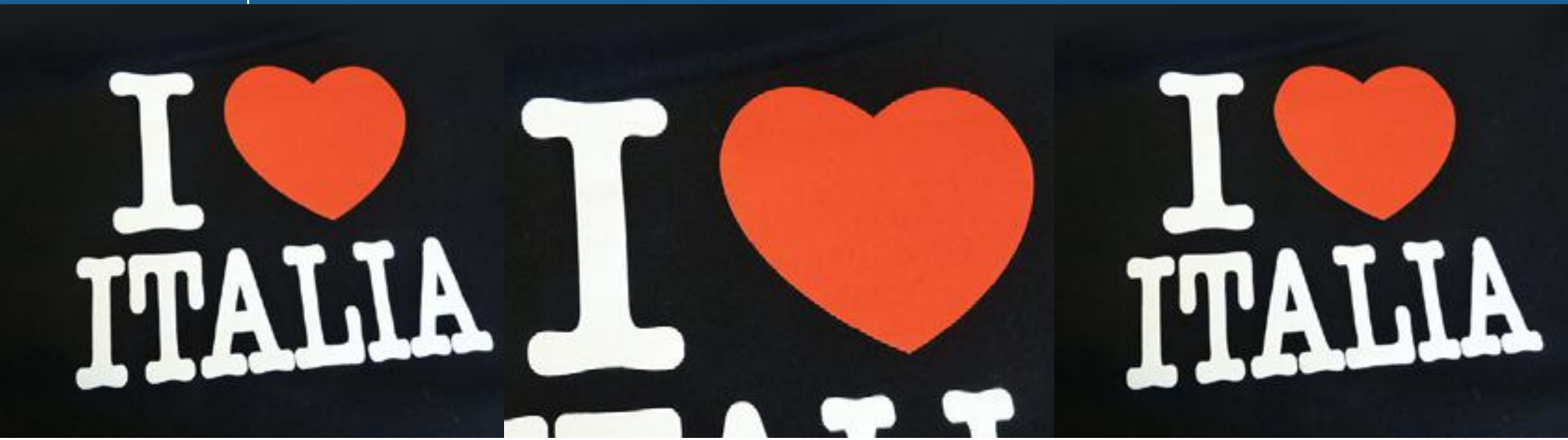
OFF-SET TRANSFER

TRANSFER WITH WATER BASED INKS

TRANSFER FOR WORKING CLOTHES

TRANSFER FOR ELASTIC FABRICS

TRANSFER FOR SPORTSWEAR



TRANSFER WITH SOLVENT BASED INKS

"GRAPHIC" TRANSFER

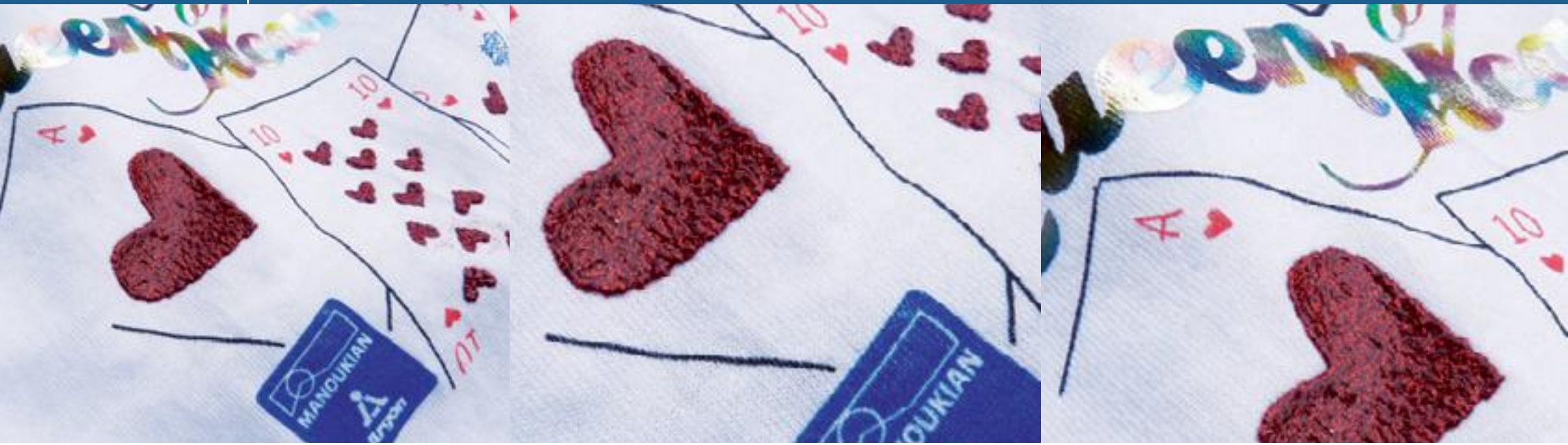
TRANSFER FOR NYLON FABRICS

TRANSFER FOR SPECIAL EFFECTS

GLITTER TRANSFER

PUFF TRANSFER

FLOCK TRANSFER



TRANSFER WITH PLASTISOL INKS

CARTA SILICONATA

TRADITIONAL PLASTISOL TRANSFER

PRINTING STEPS	INK	SCREEN (Th/cm)	DRYING
GRAPHIC	**TEXIPLAST 7000 MS** **TEXIPLAST 7000 OP**	34-120	[110°-120°C] 90"/60"
BACKGROUND WHITE	**TEXIPLAST 7000 WHITE SUPER BRIGHT**	34-55	[110°-120°C] 90"/60"
ADHESIVE	**TEXIPLAST TRANSFER TRASPARENTE PF**	32-34	[110°-120°C] 90"/60"

Transfer conditions	Temperature: 170°C / 180°C	Time: 10 / 12 SECONDS	Pressure: 4 BAR	Peel-off: COLD

TRANSFER WITH PLASTISOL INKS

SILICONE PAPER HOT SPLIT

HOT SPLIT TRANSFER

PRINTING STEPS	INK	SCREEN (Th/cm)	DRYING
GRAPHIC	**TEXIPLAST 7000 MS** **TEXIPLAST 7000 OP**	34-120	[110°-120°C] 90''/60''
BACKGROUND WHITE	**TEXIPLAST 7000 WHITE SUPER BRIGHT**	34-55	[110°-120°C] 90''/60''
ADHESIVE	**TEXIPLAST TRANSFER TRASPARENTE PF**	32-34	[110°-120°C] 90''/60''

Transfer conditions	Temperature: 170°C / 180°C	Time: 10 / 12 SECONDS	Pressure: 4 BAR	Peel-off: HOT

TRANSFER WITH PLASTISOL INKS

SILICONE PAPER

OFF-SET TRANSFER

PRINTING STEPS	INK	SCREEN (Th/cm)	DRYING
PROTECTIVE LAYER	**TEXYLON TRASPARENTE**	43-90	[110°-120°C] 90''/60''
GRAPHIC	**OFF-SET INKS**		
ADHESIVE	**TEXIPLAST 7000 LYTHO TRANSFER BIANCO**	32-34	[110°-120°C] 90''/60''

Transfer conditions	Temperature: 170°C / 180°C	Time: 10 / 12 SECONDS	Pressure: 4 BAR	Peel-off: COLD

TRANSFER WITH WATER BASED INKS

SILICONE PAPER / POLYESTER FILM

TRANSFER FOR WORKING CLOTHES

PRINTING STEPS	INK	SCREEN (Th/cm)	DRYING
PROTECTIVE LAYER	**TEXILAC TRASPARENTE LUCIDO**	77-90	[110°-120°C] 90''/60''
GRAPHIC	**TEXILAC TRASP. LUCIDO +5% TEXILAC COLORANTI / ECOTEX P PIGMENTI**	43-77	[110°-120°C] 90''/60''
BACKGROUND WHITE	**TEXILAC BIANCO LUCIDO**	32-43	[110°-120°C] 90''/60''
ADHESIVE	**TEXIFLOCK AR**	32-34	[110°-120°C] 90''/60''

Transfer conditions	Temperature: 160°C / 180°C	Time: 10 / 15 SECONDS	Pressure: 4 BAR	Peel-off: COLD

TRANSFER WITH WATER BASED INKS

POLYESTER FILM

TRANSFER FOR ELASTIC FABRICS

PRINTING STEPS	INK	SCREEN (Th/cm)	DRYING
GRAPHIC	**TEXILAC E-LF BASE / TRASPARENTE +5% TEXILAC COLORANTI / ECOTEX P PIGMENTI**	34-77	[110°-120°C] 90''/60''
BACKGROUND WHITE	**TEXILAC E-LF BIANCO EXTRA**	34-55	[110°-120°C] 90''/60''
ADHESIVE	**TEXIFLOCK E-FF**	32-34	[110°-120°C] 90''/60''

Transfer conditions	Temperature: 170°C / 180°C	Time: 10 / 15 SECONDS	Pressure: 4 BAR	Peel-off: COLD

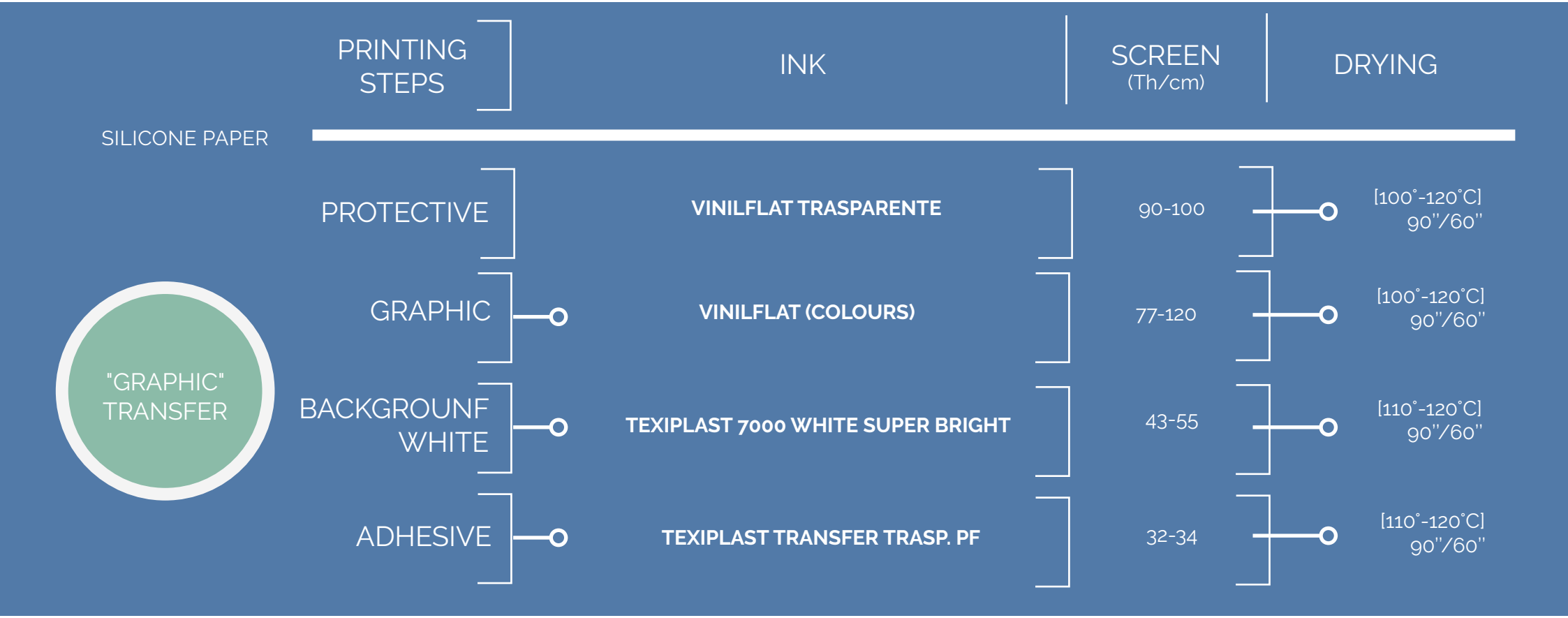
TRANSFER WITH WATER BASED INKS

TRANSFER FOR SPORTSWEAR

PRINTING STEPS	INK	SCREEN (Th/cm)	DRYING
POLYESTER FILM			
GRAPHIC	**AQUA BASE / TRASPARENTE +5% TEXILAC COLORANTI / ECOTEX P PIGMENTI**	34-90	[110°-120°C] 90''/60''
BACKGROUND WHITE	**AQUA WHITE**	34-55	[110°-120°C] 90''/60''
ANTI-BLEEDING BARRIER	**TEXPRI 19-25 ANTI-BLEEDING WB**	32-43	[110°-120°C] 90''/60''
ADHESIVE	**TEXIFLOCK E-FF**	32-34	[110°-120°C] 90''/60''

Transfer conditions	Temperature: 160°C / 180°C	Time: 10 / 15 SECONDS	Pressure: 4 BAR	Peel-off: COLD

TRANSFER WITH SOLVENT BASED INKS



Transfer conditions	Temperature: 160°C / 180°C	Time: 10 / 15 SECONDS	Pressure: 4 BAR	Peel-off: COLD

TRANSFER WITH SOLVENT BASED INKS

SILICONE PAPER

TRANSFER FOR NYLON FABRICS

PRINTING STEPS	INK	SCREEN (Th/cm)	DRYING
PROTECTIVE	**TEXYLON TRASPARENTE**	90-100	[100°-120°C] 90''/60''
GRAPHIC	**TEXYLON (COLOURS)**	55-120	[100°-120°C] 90''/60''
ADHESIVE	**TEXYLON STICK**	32-34	[100°-120°C] 90''/60''

Transfer conditions	Temperature: 150°C / 160°C	Time: 10 / 15 SECONDS	Pressure: 4 BAR	Peel-off: COLD

TRANSFER FOR SPECIAL EFFECTS

SILICONE GLOSS PAPER

GLITTER TRANSFER

PRINTING STEPS	INK	SCREEN (Th/cm)	DRYING
GRAPHIC "DESIGN"	**TEXIPLAST 7000 PROCESS**	90-120	[110°-120°C] 90''/60''
GRAPHIC "BACKGROUND"	**TEXIPLAST GT TRASPARENTE +20% GLITTER**	12-32	[110°-120°C] 90''/60''
ADHESIVE	**TEXIPLAST TRANSFER TRASPARENTE PF**	32-34	[110°-120°C] 90''/60''

Transfer conditions	Temperature: 170°C / 180°C	Time: 10 / 12 SECONDS	Pressure: 4 BAR	Peel-off: COLD

TRANSFER FOR SPECIAL EFFECTS

SILICONE PAPER
HOT SPLIT

	PRINTING STEPS	INK	SCREEN (Th/cm)	DRYING
PUFF TRANSFER	GRAPHIC	**TEXIPLAST 7000 MS / TEXIPLAST 7000 OP**	34-120	[110°-120°C] 90''/60''
	BACKGROUND WHITE	**TEXIPLAST 7000 WHITE SUPER BRIGHT + TEXIPLAST ADDITIVO RIGONFIANTE PF**	34-43	[110°-120°C] 90''/60''
	ADHESIVE	**TEXIPLAST TRANSFER TRASPARENTE PF**	32-34	[110°-120°C] 90''/60''

Transfer conditions	Temperature: 170°C / 180°C	Time: 10 / 12 SECONDS	Pressure: 4 BAR	Peel-off: HOT

TRANSFER FOR SPECIAL EFFECTS

FLOCK PAPER
TRANSFER FLOCK

FLOCK TRANSFER

PRINTING STEPS	INK	SCREEN (Th/cm)	DRYING
GRAPHIC	**TEXIFLOCK E-FF**	32-34 spessorato	No drying
ADHESIVE	**POLVERE TERMOPLASTICA (sprinkling application)**		Room temperature 24 h + [110-120°C] 90''/60''

Transfer conditions	Temperature: 170°C / 180°C	Time: 15 / 20 SECONDS	Pressure: 4 BAR	Peel-off: COLD

TRANSFER SET CHOICE

HIGH DEFINITION TRANSFER

The transfer prepared with **Vinilflat** ("graphic" transfer) is the one with the highest definition.

Excellent results can be achieved anyway with the transfer prepared with **Texylon** (transfer for nylon fabrics)

TRANSFER WITH SOLVENT-BASED INKS

TRANSFER SET CHOICE

TRANSFER WITH HIGH STABILITY IN THE SCREEN

Transfer prepared with **Texiplast** does not present any drying of the ink on the screen

TRANSFER WITH PLASTISOL INKS

EPTAINKS

a Business Brand by

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