

FINISHINGS

SP (Sports)

REF (Reflective)

EB (Embroidery)

MET (Metallic)

FLU (Fluorescent)

BTH (Breathable)

PER (Pearlscint)

UV (Ultraviolet)

GL (Glitter)

GD (Glow in Dark)

BM (Bright Matt)

HD (High Definition)

APPLICATION SEQUENCE

1. Put the base on the heat press and position the transfer.

2 / 3. Follow recommended application conditions indicated for each quality:
a) temperature;
b) pressure;
c) time;
d) removal point.

Recommendations:

Base should be clean before application.

To improve final result it can be recommendable to **Pre-press the base** or use a **Protection layer** between the heat source and the motif (paper for instance).

QUALITY CERTIFICATIONS						
Norms*	Description	SS	VR	CP	VRF	PLUS
EN 71-3	Specification for migration of certain elements.	✓				
EN 14362-1	Textiles - Methods for determination of certain aromatic amines derived from azo colorants.	✓				
EN 1122	Plastics - Determination of cadmium. Wet composition method.	✓				
ISO 6330	Textiles - Domestic washing and drying procedures for textile testing.	✓				
ISO 15797	Textiles - Industrial washing and finishing procedures for testing of workwear.		✓			
EN 14704-1	Determination of the elasticity of fabrics.	✓				
OEKO-TEX® STANDARD 100	Testing for harmful substances to the human health, including babies and toddlers up to 3 years old, meeting the needed human-ecological requirements.	✓	✓	✓	✓	✓
EN ISO 11612	Protective clothing - Against heat and flame.				✓	
ISO 105-E02	Colour fastness to sea water.	✓				
ISO 105-E03	Colour fastness to chlorinated water.	✓				
EN ISO 20471	High visibility clothing.	✓	✓	✓		
ISO 105-B02	Colour fastness to artificial light: xenon arc fading lamp test.		✓			
PVC FREE	Heliotransfers are certified as PVC free.	✓	✓	✓		

* Our Heat-Transfers are tested to ensure high reliability on quality and performance according to the main textile standards. Results of tested norms are available upon demand.

Interpretation:

- Signed norms mean: tests were performed on those product qualities and submitted products comply with those norms.
- Absence of sign mean: tests were not performed on those product qualities.
- New tests and Norms can be at any time performed, meaning regular updates of this document are processed and available upon consult of dynamic presentations (Heat-Transfers Platform or website) or upon request.



Inspiring details since 1964



HELIOTEXTIL, S.A.
Rua dos Açores nº 158
3700-018 S. João da Madeira - PORTUGAL
Tel.: +351 256 201 100
geral@heliotextil.com
www.heliotextil.com






HELIO SS

Technical Specifications

Quality	HELIO SS - “Super Stretch”
Main Characteristics	<ul style="list-style-type: none">• High elasticity• Smooth• Resistant• Low temperatures application
Indicated Bases	Wide variety of materials: natural fibers (Cotton, etc.), leather, synthetic fibers (Polyester, Polyamide-Elastane), with high elasticity, sensitive to high temperatures, etc.

Recommendations

Application Conditions	<ul style="list-style-type: none">• Temperature: 120-160°C• Time: 8-14 sec.• Pressure: 3-6 Bar• Removal Point: Hot peel. REF (Reflective) finishing removal point: Cold Peel.
Washing Instructions	
Recommended Use	<ul style="list-style-type: none">• Suits almost all textile materials.• Sportswear, underwear, bathwear, etc.




HELIO VR

Technical Specifications

Quality	HELIO VR - “Very Resistant”
Main Characteristics	<ul style="list-style-type: none">• Very good resistance to friction• Washing up to 90°C
Indicated Bases	Polyester, Cotton or mixtures.

Recommendations

Application Conditions	<ul style="list-style-type: none">• Temperature: 150-190°C• Time: 10-14 sec.• Pressure: 6-7 Bar• Removal Point: Hot peel. REF (Reflective) and BM (Bright Matt) finishings removal point: Cold Peel.
Washing Instructions	
Recommended Use	<ul style="list-style-type: none">• Workwear• Industrial laundry




HELIO CP

Technical Specifications

Quality	HELIO CP - “Coated Products”
Main Characteristics	<ul style="list-style-type: none">• Suitable for coated materials only, and special finishings.• Low temperatures application.
Indicated Bases	Coated materials, special finishings like Repellants, PU, PVC, etc.

Recommendations

Application Conditions	<ul style="list-style-type: none">• Temperature: 120-130°C• Time: 10-12 sec.• Pressure: 3-4 Bar• Removal Point: Cold peel. REF (Reflective) finishing removal point: Cold Peel.
Washing Instructions	
Recommended Use	<ul style="list-style-type: none">• Rainwear, seawear (fishing, sports)• Special coated products

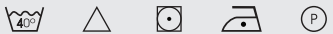


HELIO PLUS

Technical Specifications

Quality	HELIO PLUS - “Polypropylene Supports”
Main Characteristics	<ul style="list-style-type: none">• Elasticity• Smooth• Resistant• Very low temperatures application
Indicated Bases	Mainly polypropylene, high sensitivity to temperature.

Recommendations

Application Conditions	<ul style="list-style-type: none">• Temperature: 100-120°C• Time: 12-18 sec.• Pressure: 3-4 Bar• Removal Point: Warm peel.
Washing Instructions	
Recommended Use	<ul style="list-style-type: none">• Suitable for polypropylene materials.




HELIO VRF

Technical Specifications

Quality	HELIO VRF - “Flame Retardant”
Main Characteristics	<ul style="list-style-type: none">• Resistance to heat and flame• Very good resistance to friction• Washing up to 90°C
Indicated Bases	Polyester, Cotton or mixtures.

Recommendations

Application Conditions	<ul style="list-style-type: none">• Temperature: 180-200°C• Time: 12-16 sec.• Pressure: 6-7 Bar• Removal Point: Hot peel. REF (Reflective) finishing removal point: Cold Peel.
Washing Instructions	
Recommended Use	<ul style="list-style-type: none">• Workwear• Industrial laundry




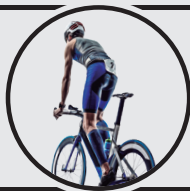
HELIO SP

Technical Specifications

Quality	HELIO SP - “Sports”
Main Characteristics	<ul style="list-style-type: none">• Anti-Migration• Good Stretchability• Resistant
Indicated Bases	Wide variety of materials: natural fibers (Cotton, etc.), leather, synthetic fibers (Polyester, Polyamide-Elastane), with high elasticity, sensitive to high temperatures, etc.

Recommendations

Application Conditions	<ul style="list-style-type: none">• Temperature: 140-160°C• Time: 10-14 sec.• Pressure: 4-6 Bar• Removal Point: Hot peel or Cold Peel available upon demand.
Washing Instructions	
Recommended Use	<ul style="list-style-type: none">• Textiles with bleeding problems: low color fatness to heat.• Sportswear



HELIO REF

Technical Specifications

Quality	HELIO REF - “Reflective”
Main Characteristics	<ul style="list-style-type: none">• High visibility• Stretchability (“SS” characteristic)• Resistant (“VR” characteristic)• Coated Products (“CP” characteristic)• Low temperatures application
Indicated Bases	Wide variety of materials: natural fibers (Cotton, etc.), leather, synthetic fibers (Polyester, Polyamide-Elastane), with high elasticity, sensitive to high temperatures, etc.


Recommendations

Application Conditions	<ul style="list-style-type: none">• For Temperature, Time and Pressure follow indicated qualities “SS”, “VR” or “CP”.• Removal Point: Cold Peel.
Washing Instructions	<ul style="list-style-type: none">• Follow indicated qualities “SS”, “VR” or “CP”.
Recommended Use	<ul style="list-style-type: none">• Suits almost all textile materials.• Sportswear, rainwear, bathwear, etc.

General Characteristics

Presentation (Support)	Presented on a transparent film allows 100% quality inspection, perfect visualization and the correct placing of the motif before application.
Dimensions (Useful Printing Area)	<ul style="list-style-type: none">• Up to 670x1000mm.• REF (Reflective) quality up to 460x650mm.
Colours	“Base colours chart” available combined with our colours mixing system allows to match desired PANTONE® colours with high accuracy. No limits on number of colours.

Recommendations

Storage	<ul style="list-style-type: none">• Stock in a dry place, without dust and preferably with controlled temperature.• Do not expose to direct solar light or other heat sources.• Do not stack with weight.• In normal conditions recommended durability to apply a transfer is one year from its production.
Tests	<ul style="list-style-type: none">• It is recommended to perform tests over the materials to be used.• HELIOTEXTIL is available to perform tests.
Responsibility	<ul style="list-style-type: none">• HELIOTEXTIL recommends application conditions and will not take any responsibility for the transfer application by the client.• HELIOTEXTIL assumes that before formulating the order and before using the products, the client validated the requirements of intended end use.
Presentation	<ul style="list-style-type: none">• Boxes • Plastic Bags 