BCINKS
Professional Ink Manufacturer

Direct to Film

Direct to Film
Textile Pigment Ink

Direct-to-Film (DTF) printing is a relatively new printing technology in the textile and garment industry. It involves printing designs onto a special transfer film, which is then transferred onto the fabric or other materials using heat and pressure.
DTF printing offers a versatile, high-quality, and cost-effective solution for custom printing on a wide range of materials



For Epson head

i3200/1600/4720/XP600/R1390/L18050
L1800/L800/L805/P400 etc

C M Y BK W FM FY

Fabric

Silk | Polyester | blended | Canvas | Linen | Cotton

Feature

- Stability & Super Whiteness
- Excellent whiteness coverage
- Broad Color gamut,Good color reproduction,Good compliance between white ink and color ink.
- Better Washing durability & Rub resistance
- Refined ink formulation to minimize the risk of oil back(or oily residues)
- OEKO-TEX ECO PASSPORT Certificate ECO PASSPORT
- ZDHC(Zero Discharge Hazardous): ZDHC Level 1

OEKO TEX®
ECO PASSPORT
SH150 221614
TESTEX

Head office: Block A6, 01 Taisheng Avenue, Jiashan 314199, Zhejiang, China.
Tel: 86-573-84648089 www.inks.com.cn sale@inks.com.cn

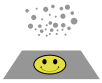
DTF Printing Process



Design



Print on Pet transfer Film



Hot melt adhesive
powder shaking and curing



Curing & Transfer
by Heat Press



Peeling & Finished

Application

customize t-shirts/sweatshirts/Hoodies/caps/canvas/shoes etc/wash label/neck label/neck care label/tagless label/gift



T-shirt



Hoodies



Bag



Shoes



Hat

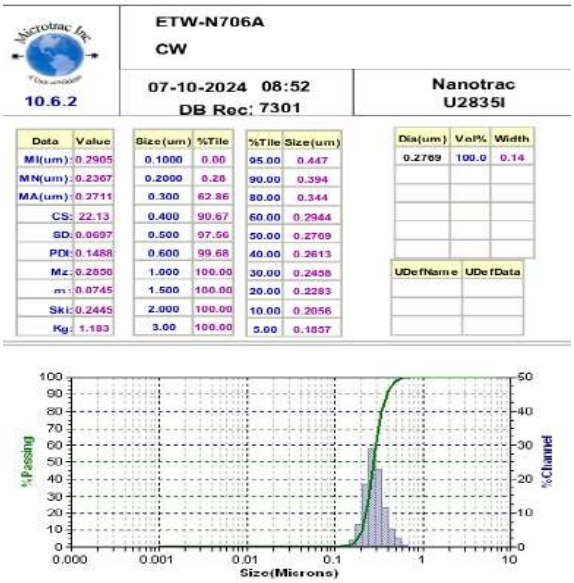


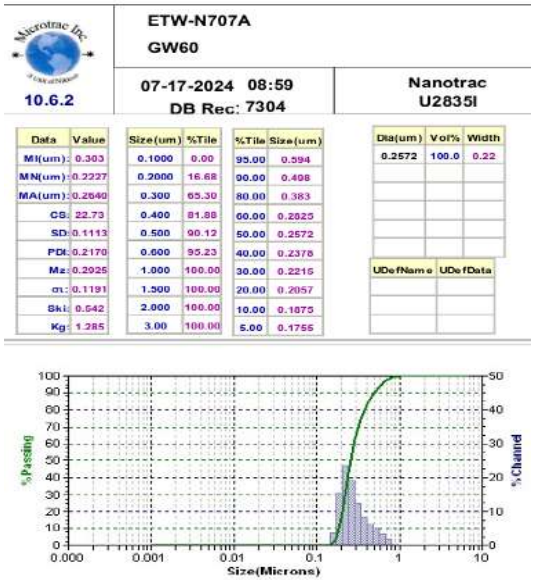
Jeans

Stability

Particle Size Distribution for White:
BCINKS Ink particle size is evenly distributed and less than 300nm(<0.3um)

BCINKS	Particle size[a]	Aging test[b]
R52620-U28	294 nm	Change rate: ±10%





Analytical instruments : Microtrac UPA150 a:Room temperature b:Aging test: 60℃×168H

DTF Peel Test

No film residue



R52620
BCINKS(W+CL)

Film residue



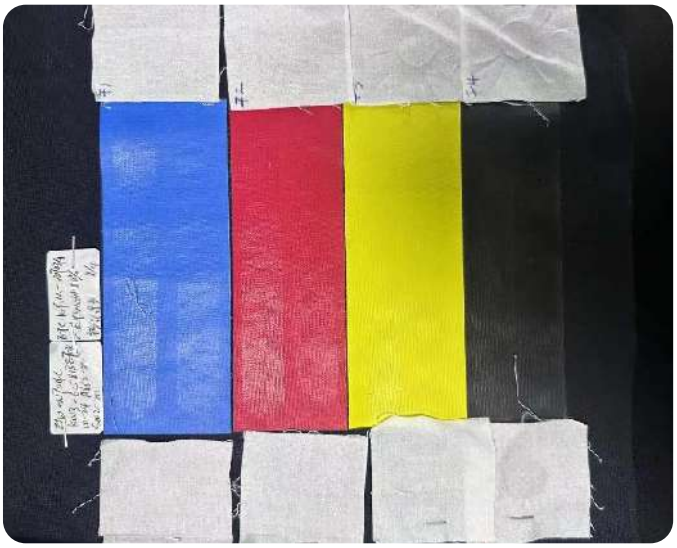
Other Brand
(W+CL)

Rubbing fastness (AATCC 08)

	R52620 BCINKS(W+CL)		Other Brand (W+CL)	
	Dry	Wet	Dry	Wet
C	5	5	5	2
M	5	5	4.5	1
Y	5	5	4.5	3.5
K	4.5	5	4.5	2.5

Testing instruments :Y571
9-step AATCC Chromatic Transference Scale
Grade 5—negligible or no color transfer, Grade 1— poor

BCINKS DTF INK Dry rubbing test



Wet rubbing test

Other Brand Ink Dry rubbing test



Wet rubbing test

Anti-Sedimentation properties and storage stability

ESSENTIAL-9508 Digital White



Preparation After six(6) months

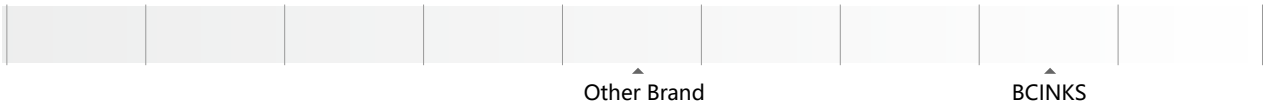
Competitive Sample



Preparation After six(6) months

Whiteness

Improved opacity of white ink enables clear printing on dark-colored fabrics



White ink brightness is 2 degrees higher than other brands.

White measurement standard: Blu-ray whiteness R457/IS02470

Printer For EPSON L805





Organic solvent floats out

Oil Return Back test

Organic solvents do not float out



R52620
BCINKS(W+CL)

Organic solvents float out



Other Brand
(W+CL)

BCINKS Refined ink formulation to minimize the risk of oil back(or oily residues)

Color Space

Bright color performance, Wide Color gamut,Good color reproduction

		C	M	Y	K
R52620-U28 L*: Lightness a*: Red/Green Value b*: Blue/Yellow Value	L*	49.43	40.72	81.92	23.15
	a*	-6.73	50.11	-11.35	0.65
	b*	-38.89	18.08	78.50	-0.84

Color Uniformity Test

Rich and smooth color



R52620
BCINKS(W+CL)

Faded color with streaks



Other Brand
(W+CL)

Wash fastness

BCINKS DTF Ink:
Good washing resistance
No Cracking or Flaking After Washing (Machine wash 20 times for 45 ℃ x 1h)



R52620-U28 Machine wash 20 times for 45 ℃ x 1h

Print Performance

Epson i3200 Printhead + HOSON Controller Colors: CMYK+W Print Mode: 6 PASS

OEKO TEX®
ECO PASSPORT
SH150 221614
TESTEX

BCINKS DTF ink has acquired OEKO-TEX® ECO PASSPORT certification, an international standard that guarantees low environmental impact and the safety for chemicals used during the production of textile products.

The "ECO PASSPORT" is an independent certification system for chemicals, colorants and auxiliaries used in the textile industry verifying that each individual ingredient in chemical products meets the statutory requirements and is not harmful to human health.

With the earned ECO PASSPORT certification, users can assured that printing on textiles does not affect the human body and can be used safely at home with small children.

You can find certification details for the dedicated ink by following the QR codes below:



Jiaxing Baichuan Printer Technology Co., Ltd.
Building No. 3, No. 15, Dongsheng Road, Haimin District, 314112 Jiashan Zhejiang, CHINA

TESTEX AG, Swiss Textile Testing Institute
Gertrudstrasse 61
8002 Zurich
Switzerland

Certificate

OEKO-TEX® ECO PASSPORT

Jiaxing Baichuan Printer Technology Co., Ltd.

is granted the OEKO-TEX® ECO PASSPORT certification and the right to use the trademark.

TYPE
ECO PASSPORT with Self-Assessment

PRODUCTS
See attached enclosure

PRODUCT CATEGORY
2.10 Printing pastes and inks with and without colourants

ECO PASSPORT SH150 221614 TESTEX

This certificate SH150 221614 is valid until 31.08.2026.

SUPPORTING DOCUMENTS
- Test Report Number: SH150 265582.1
- Declaration of conformity in accordance with EN ISO 17050-1 as required by OEKO-TEX®
- RSL Screening Report
- Detailed information about the components and safety data sheets of the certified chemical products

The above captioned products can be used for the production of human-ecological optimized textiles & leathers.
The combined results of the reports mentioned above reveal that there is no harmful effect on the human and environmental health of the textiles & leathers treated/finished with the certified products.

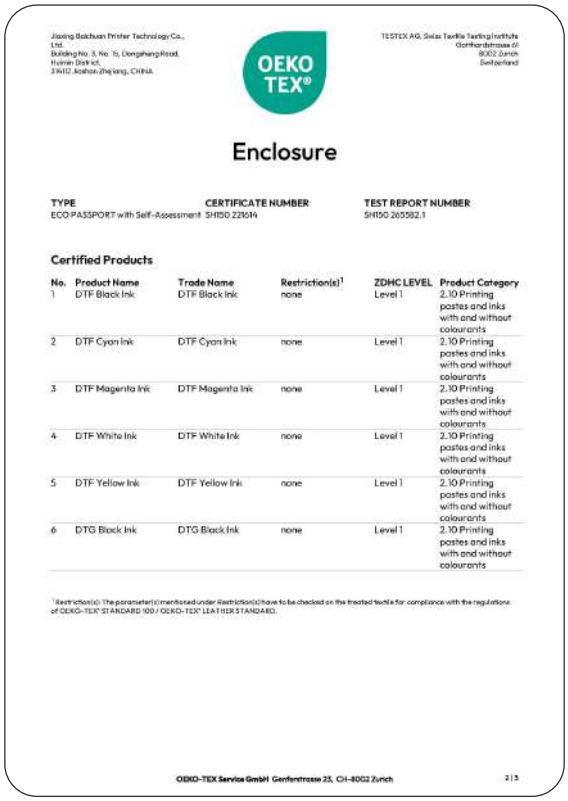
ZDHC MRSL 3.1 Conformance Level 1 is achieved for certified products unless indicated otherwise.
Further compliance information (REACH, SVHC, POP etc.) can be found on oeko-tex.com/en/faq.
The certificate is based on the test methods and requirements of the OEKO-TEX® ECO PASSPORT that were in force at the time of evaluation.

Matz Bachmann
Managing Director

Dr. Saverio Iozza
Laboratory Manager

Zürich, 2025-08-14

OEKO-TEX Service GmbH Genferstrasse 23, CH-8002 Zurich 1 | 3



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Enclosure

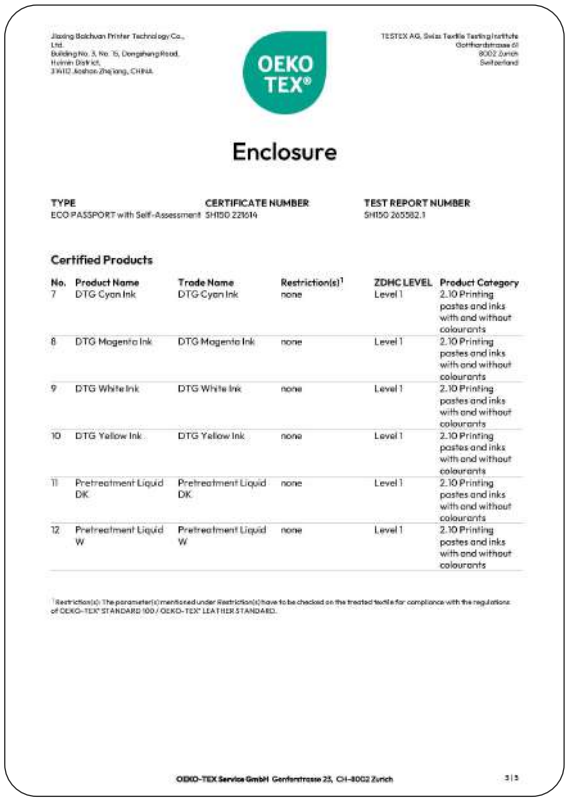
TYPE	CERTIFICATE NUMBER	TEST REPORT NUMBER
ECO PASSPORT with Self-Assessment	SH150 221614	SH150 265582.1

Certified Products

No.	Product Name	Trade Name	Restriction(s)[1]	ZDHC LEVEL	Product Category
1	DTF Black Ink	DTF Black Ink	none	Level 1	2.10 Printing pastes and inks with and without colourants
2	DTF Cyan Ink	DTF Cyan Ink	none	Level 1	2.10 Printing pastes and inks with and without colourants
3	DTF Magenta Ink	DTF Magenta Ink	none	Level 1	2.10 Printing pastes and inks with and without colourants
4	DTF White Ink	DTF White Ink	none	Level 1	2.10 Printing pastes and inks with and without colourants
5	DTF Yellow Ink	DTF Yellow Ink	none	Level 1	2.10 Printing pastes and inks with and without colourants
6	DTG Black Ink	DTG Black Ink	none	Level 1	2.10 Printing pastes and inks with and without colourants

[1] Restriction(s): The parameter(s) mentioned under Restriction(s) have to be checked on the treated textile for compliance with the regulations of OEKO-TEX® STANDARD 100 / OEKO-TEX® LEATHER STANDARD.

OEKO-TEX Service GmbH Genferstrasse 23, CH-8002 Zurich 2 | 3



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Enclosure

TYPE	CERTIFICATE NUMBER	TEST REPORT NUMBER
ECO PASSPORT with Self-Assessment	SH150 221614	SH150 265582.1

Certified Products

No.	Product Name	Trade Name	Restriction(s)[1]	ZDHC LEVEL	Product Category
7	DTG Cyan Ink	DTG Cyan Ink	none	Level 1	2.10 Printing pastes and inks with and without colourants
8	DTG Magenta Ink	DTG Magenta Ink	none	Level 1	2.10 Printing pastes and inks with and without colourants
9	DTG White Ink	DTG White Ink	none	Level 1	2.10 Printing pastes and inks with and without colourants
10	DTG Yellow Ink	DTG Yellow Ink	none	Level 1	2.10 Printing pastes and inks with and without colourants
11	Pretreatment Liquid DK	Pretreatment Liquid DK	none	Level 1	2.10 Printing pastes and inks with and without colourants
12	Pretreatment Liquid W	Pretreatment Liquid W	none	Level 1	2.10 Printing pastes and inks with and without colourants

[1] Restriction(s): The parameter(s) mentioned under Restriction(s) have to be checked on the treated textile for compliance with the regulations of OEKO-TEX® STANDARD 100 / OEKO-TEX® LEATHER STANDARD.

OEKO-TEX Service GmbH Genferstrasse 23, CH-8002 Zurich 3 | 3



Jiangsu New Horizon Testing, Inspection and Certification Co., Ltd
No.288,Dongzhou Road,Shengze,Wujiang
Tel: +86-512-63523187
Email: jsnhcp@jsnhcp.cn

JIANGSU NEW HORIZON TESTING, INSPECTION AND CERTIFICATION CO., LTD.
TEST REPORT

Report No.: SH-WS 2025-003199

Applicant	JIAXING BAICHUAN PRINTER TECHNOLOGY CO.,LTD.				
Address	Block A6,01 Taisheng Avenue,,Jiashan 314199,Zhejiang,China.				
Sample Information	**CONTACT:**	/			
	TEL	0573-84648089			
	DESCRIPTION	One Piece of Textile Ink DTF Print Textile Fabrics(34×35cm)			
	Manufacturer	/	**Manufacturer Address**	/	
	Style No.	/	**Art No.**	/	
	Buyer	/	**PO No./Order No.**	/	
	Contract No.	/	**Invoice No.**	/	
	Materials Name	/	**Materials No.**	/	
Sample State	Meet Inspection Testing Requirement				
Test Type	Submit Inspection Testing	**Received Date**	2025/03/17	**Testing Date**	2025/03/17-2025/03/25
Test Address And Conditions	Address:Company		Temperature:Meet Standard Requirements		Humidity:Meet Standard Requirements
Test Standard	---				
Test Results	/				
Note	/				

Scan to check authenticity

COMPILED BY

AUTHORISED BY

CHECKED BY Gu Dandan

DATE 2025/03/25

Statement:
1. If there is any objection to the inspection results, it shall be submitted to the inspection organization within 15 days from the date of receiving the report. 2. The report is invalid under the following circumstances: a) There is no special seal for inspection of the inspection organization in the report; b) The report is not signed; c) Report alteration; d) The report is incomplete. 3. The report shall not be partially copied without the approval of the inspection organization. 4. Unless required by the customer, the uncertainty of the measurement results will not be considered in the test results and conformity determination of this report. 5. The information identified by the client in the report is provided by the client, and the inspection organization is not responsible for its authenticity. 6. Only responsible for the samples.

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JIANGSU NEW HORIZON TESTING, INSPECTION AND CERTIFICATION CO., LTD.
TEST REPORT

Report No.: SH-WS 2025-003199

Sample Description/Result Summary

Tested Sample/Part Description	Textile Ink DTF Print Textile Fabrics

No.	Test Item(Unit)	Test Method	Technical Requirement	Test Result	Conclusion
1	Color Fastness to Light (Class)	ISO 105-B02:2014 (Exposure Cycle A1,Method 3,Blue Wool Reference for Assessing)	≥ 5	>5	Pass
2	Colour Fastness to Perspiration (Class)	ISO 105-E04:2013	Colour change - acid: ---	4-5	---
			Colour staining - acid: ---	Wool:4-5 Acrylic:4-5 Polyester:4-5 Nylon:4-5 Cotton:4 Acetate:4-5	---
			Colour change - Alkaline: ---	4-5	---
			Colour staining - Alkaline: ---	Wool:4-5 Acrylic:4-5 Polyester:4-5 Nylon:4-5 Cotton:4 Acetate:4-5	---
3	Colour Fastness to Domestic and Commercial Laundering (Class)	ISO 105/C06-2010 (A2S,Temperature 40℃,Time 30 Minutes,Synthetic Detergent ECE 4g/L,Sodium Perborate 1g/L,Steel Balls:10 Grain)	Colour change: ---	4-5	---
			Colour staining: ---	Wool:4-5 Acrylic:4-5 Polyester:4-5 Nylon:4-5 Cotton:4-5 Acetate:4-5	---

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Report No.: SH-WS 2025-003199

No.	Test Item(Unit)	Test Method	Technical Requirement	Test Result	Conclusion
4	Colour Fastness to Rubbing (Class)	ISO 105-X12:2016	Dry: ---	4-5	---
			Wet: ---	4-5	---
5	Color Fastness to Water (Class)	ISO 105-E01:2013	Colour change: ---	4-5	---
			Colour staining: ---	Wool:4-5 Acrylic:4-5 Polyester:4-5 Nylon:4-5 Cotton:4-5 Acetate:4-5	---
6	Colour Fastness to Spit (Class)	GB/T 18886-2019	Colour change: ---	4-5	---
			Colour staining: ---	Wool:4-5 Acrylic:4-5 Polyester:4-5 Nylon:4-5 Cotton:4 Acetate:4-5	---

Photo of Sample



*** End of Report ***

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DTF Transfer image on film



DTF Transfer image on fabric



Neck label



T-shirt print