

EUROMIN EC COLORS

EUROMIN EC is highly performance pigment colors which preparation by **PHISIT INTERGROUP CO., LTD.** to meet the rising quality requirements in various textile application.

EUROMIN EC pigment colors perform fine dispersion stability, defined particle size, brilliancy and wide range of color shades. EUROMIN EC pigment colors are high reproducibility, reliability can be obtained optimum coloring results by careful selection of EUROMIN EC pigment colors.

EUROMIN EC offered in the production lines are not intentionally added raw materials any of the prohibited substances above the limit of textile standard. EUROMIN EC are granted authorization according to **ECO PASSPORT**.

APPLICATION

1. Printing recipe

printed colors illustrated in this pattern card were produced using the following general printing recipe. Pigment printing can affect fastness properties, shade and brilliancy in many different ways. Therefore for obtain the required qualities printing results ensure the properties of all auxiliaries in print paste.

Stock Thickening

Water (Demineralised)	X	part
Emulsifier E-650	0.5	part
White - spirit	5	part
Synthetic thickener (Acrylate - based)	1.5	part
Polyacrylate binder	10 ~ 20	part
Catalyzer P	2	part
25% Ammonia	2	part
Total	100	part

Printing paste

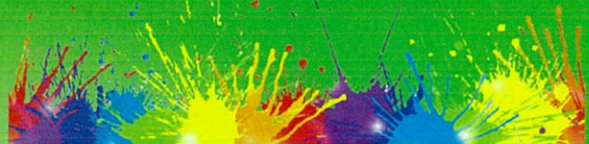
EUROMIN EC COLORS	Y	part
Stock thickening	100 -Y	part
Total	100	part

Printing — Drying (2 min at 100°C) — Curing (3 min at 150°C)

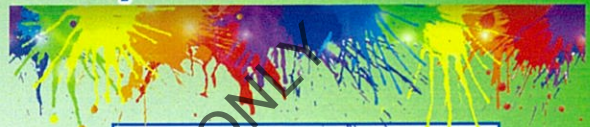
2. Padding recipe

EUROMIN EC COLORS	A	g/litre
Polyacrylate binder	100 ~ 200	g/litre
Antimigrating agent	5	g/litre
Catalyzer P	10	g/litre
Water (Demineralised)	B	g/litre
Total	1	litre

Padding — Predry — Curing (Hot air at 160°C for 2 min)



EUROMIN EC PIGMENT RESIN COLORS For your valuable fabric



Phisit Group
since 1973



ISO 9001 : 2015

PHISIT INTERGROUP CO., LTD.

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* Print on TC : Dry --->Curing 150°C x 3 min

5%	1%	20%	5%
YELLOW GS-EC		ORANGE EC-14	
RED KR-EC		PINK EC-17	
BLUE HS-EC		RUBINE EC-37	
		VIOLET EC-69	

Colour Fastness to EUROMIN	Fastness Testing Method						
	Light	Washing	Rubbing	Perspiration	Saliva	Dry Cleaning	Heat
Yellow GS-EC	6	5	4/3-4	5	5	4	4-5
Red KR-EC	6	4-5	3-4/3-4	5	5	4	4-5
Blue HS-EC	7	5	4/3-4	5	5	5	4-5
Orange EC-14	3	4	4-5/3	4	4	4	4-5
Pink EC-17	3	4	4-5/3	4	4	2-3	4
Rubine EC-37	2-3	4	4-5/3	4	3-4	4	3
Violet EC-69	2-3	4	4-5/3	3-4	3	3	4

"Technical data shown on this document is based on data from testing of printed fabric samples."



Fastness testing method	Evaluated	Grade
Light : ISO 105-B02(30 hr.)	Colour Change	1-8
Washing : ISO 105-C03(60°C X 30 min.)	Colour Stain	1-5
Rubbing : ISO 105-X12	Colour Stain	1-5
Perspiration : ISO 105-E04	Colour Stain	1-5
Saliva : GB/T 18886	Colour Stain	1-5
Dry Cleaning : ISO 105-D01(P.C.E)	Colour Change	1-5
Heat : Oven 180°C X 1 min.	Colour Change	1-5

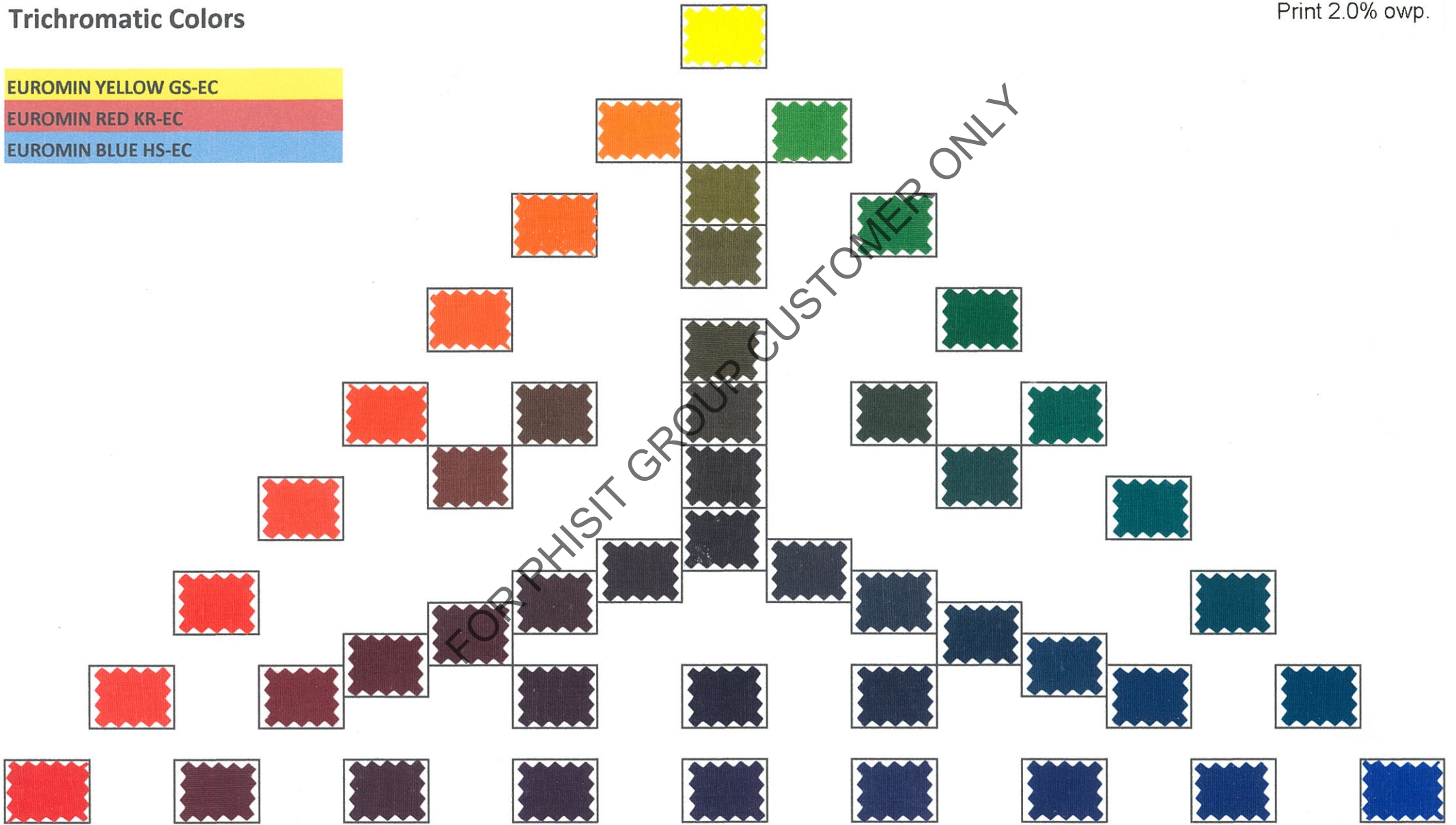
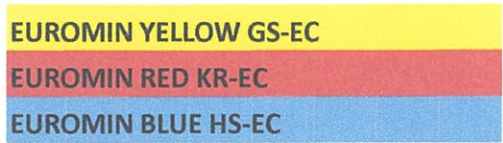
Normal Color:
Print on Cotton Knit 3 % owp. --->Dry--->Curing 150°C x 3 min.

Fluorescent Color:
Print on Cotton Knit 10 % owp. --->Dry--->Curing 150°C x 3 min.

EUROMIN EC COLORS ARE GRANTED AUTHORIZATION ACCORDING TO ECO PASSPORT

Print 2.0% owp.

Trichromatic Colors

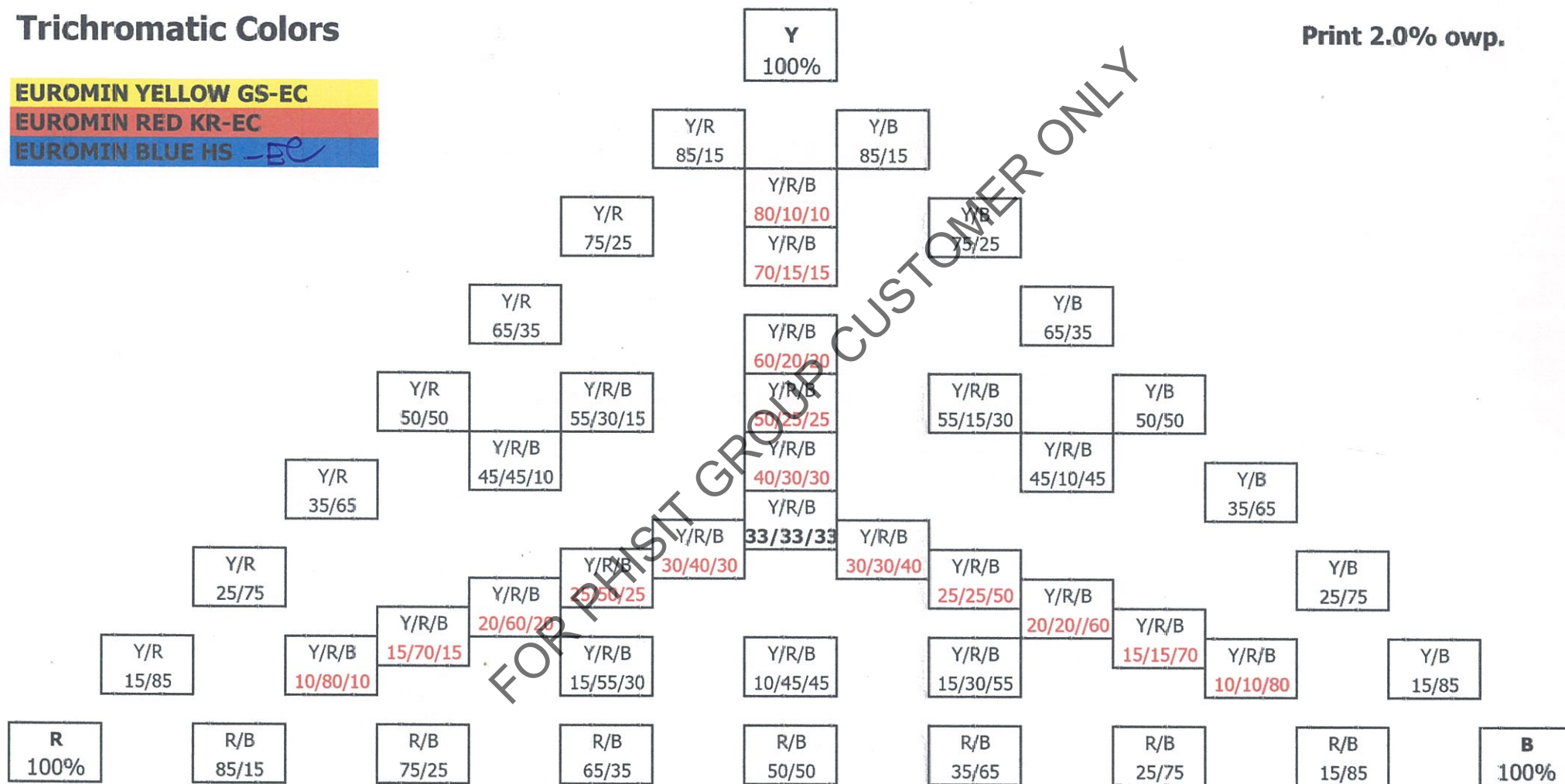


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Trichromatic Colors



Print 2.0% owp.



CERTIFICATE

The Company

Phisit Intergroup Co., Ltd.
No. 9/9, Soi Pradiphat 10, Pradiphat Road
Phayathai
Bangkok - 10400, THAILAND

is granted authorisation according to ECO PASSPORT by OEKO-TEX® to use the OEKO-TEX® mark



for the following chemical products

Product(s): Euromin Pink EC 17, Euromin Rubine EC 37
Category: Pigments and inks

Supporting documents

- Declaration of conformity in accordance with EN ISO 17050-1 included in ECO PASSPORT by OEKO-TEX® Terms of Use.
- Analytical test report number: 19.0.89538
- RSL Screening Report
- Detailed information about the components and safety data sheets of the chemical products mentioned above.

The above captioned product(s) 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 above mentioned products. This evaluation used the test methods and requirements of the ECO PASSPORT by OEKO-TEX® that were in force at the time of the evaluation date. ZDHC MRS L Conformance Level 1 is achieved for certified product(s) without restriction(s).

The certificate 19.0.89538 is valid until 31.12.2020

Boennigheim, 23.12.2019

p.p. datuskin
Dipl.-Ing. (FH) Ivonne Schramm
Head of Certification Body OEKO-TEX®
HOHENSTEIN HTTI

CERTIFICATE

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for the following chemical products

Product(s): See attached enclosure

Category: Pigments and inks

Supporting documents

- Declaration of conformity in accordance with EN ISO 17050-1 included in ECO PASSPORT by OEKO-TEX® Terms of Use.
- Analytical test report number: 20.0.02512
- RSL Screening Report
- Detailed information about the components and safety data sheets of the chemical products mentioned above.

The above captioned product(s) 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 above mentioned products. This evaluation used the test methods and requirements of the ECO PASSPORT by OEKO-TEX® that were in force at the time of the evaluation date. ZDHC MRS L Conformance Level 1 is achieved for certified product(s) without restriction(s).

The certificate 20.0.02512 is valid until 31.03.2021

Boennigheim, 30.03.2020

Schramm
Dipl.-Ing. (FH) Ivonne Schramm
Head of Certification Body OEKO-TEX®
HOHENSTEIN HTTI

Enclosure to Certificate No. 20.0.02512

ECO PASSPORT by OEKO-TEX®

OEKO-TEX® - International Association for Research and Testing in the Field of Textile and Leather Ecology.



OEKO-TEX®
CONFIDENCE IN TEXTILES
ECO PASSPORT 

Company

Phisit Intergroup Co., Ltd.
No. 9/9, Soi Pradiphat 10, Pradiphat Road
Phayathai
Bangkok - 10400, THAILAND

ECO PASSPORT by OEKO-TEX® Lab Report No.

20.0.02512

ECO PASSPORT by OEKO-TEX® Certified Products

No.	Product name	Trade name	Restriction(s) ¹	ZDHC LEVEL
1	EUROMIN BLUE HS-EC	EUROMIN BLUE HS-EC	none, (see footnote) ²	Level 1
2	EUROMIN ORANGE EC 14	EUROMIN ORANGE EC 14	none	Level 1
3	EUROMIN RED KR-EC	EUROMIN RED KR-EC	none	Level 1
4	EUROMIN VIOLET EC 69	EUROMIN VIOLET EC 69	none	Level 1
5	EUROMIN YELLOW GS-EC	EUROMIN YELLOW GS-EC	none	Level 1

FOR PHISIT GROUP CUSTOMER ONLY

Issue Date 30.03.2020

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

² Testing for extractable heavy metals required for STANDARD 100 and LEATHER STANDARD