



REACTIVE PRINTING DYESTUFFS



www.denadyes.com

DENAPRINT DYES

Improved and adjusted ranges for varying and cost saving applications that meet high requirements.



Yellow P6G 30 g/kg
 Golden Yellow P3R 30 g/kg
 Orange P2R 30 g/kg
 Orange P4R 30 g/kg
 Red P3B 30 g/kg
 Red P4BN 30 g/kg
 Red P6B 30 g/kg

		Yellow P6G 30 g/kg	Golden Yellow P3R 30 g/kg	Orange P2R 30 g/kg	Orange P4R 30 g/kg	Red P3B 30 g/kg	Red P4BN 30 g/kg	Red P6B 30 g/kg
Solubility in water 30°C		100 g/l	100 g/l	200 g/l	150 g/l	120 g/l	150 g/l	150 g/l
Washing Fastness	CC	4-5	4-5	4-5	4-5	4-5	4-5	4-5
	CO	4-5	4-5	4	4-5	4-5	4-5	4-5
Oxidative Washing Fastness	CC	4-5 On T.	4-5 On T.	4-5 On T.	4 On T.	4 On T.	4 On T.	3-4 On T.
Water Fastness	CC	4-5	4-5	4-5	4	4-5	4-5	4
	CO	5	5	4	3-4	4	4-5	3-4
Perspiration Fastness	Asidic	4-5	4-5	3-4	4	3-4	4	4
	Alcali	4-5	4-5	3-4	3-4	4	3-4	4
Light Fastness	1/1SD	5	5	4	5	4	4	4
Perspiration Light Fastness	Acidic	4-5	4-5	4-5	4-5	3-4	3-4	3-4
	Alcali	4-5	4-5	4-5	4-5	3	3	3
Rubbing Fastness	Dry	4-5	4-5	4-5	4-5	4-5	4-5	4
	Wet	4	4	4	4	4	4	3-4

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Turquoise Blue PGR 30 g/kg
 Brill. Blue P3R 30 g/kg
 Navy P2R 30 g/kg
 Navy Blue HF 30 g/kg
 Black PN 30 g/kg
 Black PGR 50 g/kg
 Black DG 50 g/kg

		Turquoise Blue PGR 30 g/kg	Brill. Blue P3R 30 g/kg	Navy P2R 30 g/kg	Navy Blue HF 30 g/kg	Black PN 30 g/kg	Black PGR 50 g/kg	Black DG 50 g/kg
Solubility in water 30°C		200 g/l	200 g/l	150 g/l	100 g/l	200 g/l	200 g/l	150 g/l
Washing Fastness	CC	4	4-5	4-5	4-5	4-5	4-5	4-5
	CO	3	4	4-5	4-5	4-5	4	4-5
Oxidative Washing Fastness	CC	3-4 On T.	4-5 On T.	3-4 On T.	4 On T.	4 Off T.	3-4 On T.	4 On T.
Water Fastness	CC	4	4-5	4-5	4-5	4-5	4-5	4-5
	CO	2-3	4	4-5	4	4	4	3-4
Perspiration Fastness	Asidic	2-3	4-5	4-5	3-4	3-4	3-4	3-4
	Alcali	2	4	4	3	3-4	3-4	3-4
Light Fastness	1/1SD	5	5	4	4	4	4-5	4-5
Perspiration Light Fastness	Acidic	4-5	4	3-4	3-4	3-4	4	4
	Alcali	4	3-4	3-4	3-4	3-4	3-4	4
Rubbing Fastness	Dry	3-4	4-5	4-5	4-5	4-5	4-5	4-5
	Wet	3	4	4	3-4	4	4	3

REACTIVE PRINTING PROCESSES

Recommended Printing Recipe for cotton and viscose fabrics:

Reactive Printing	Cotton	Viscose
Soda	-	5
Sodium bicarbonate	35	25
Urea	100-150	100-200
Alginate (Low,Medium,High)	25-50	25-50
Dengol N	10-15	10-15
Denova Speedy	1-3	1-3
Neoprint ST	10-15	10-15
Water	X	Y

Dengol N: oxidation agent

Denova Speedy: wetting and leveling agent, it is improve penetration and prevents congestion of printing screen

Neoprint ST: Synthetic thickener

Fixation: 8-12 minutes at 102 °C saturated steam.

RECOMENDED COMBINATION OF DYESTUFFS

- The purpose of our main combination dyestuffs is to use lower amounts of dyes to reduce the recipe cost and ensure safer operation. In this way, we can avoid problems such as repeatability and washing fastness problems.
- These dyes are less sensitive to alkali, temperature and reducing effects, they can show high reproducibility.
- For brilliant orange and red: Yellow P6G, Red P4BN and Orange P2R
- For brilliant green and turquoise: Yellow P6G, Brilliant Blue P3R and Turquoise Blue PGR
- For dark blue colors, it is necessary to pay attention to whether the main dyestuff is Navy P2R or Navy Blue HF. Nuances can be made with Black PN, Orange P4R, Red P3B or Red P6B dyes.

MAIN COMBINATION DYES

Denaprint Golden Yellow P3R
Denaprint Orange P4R
Denaprint Red P3B
Denaprint Red P6B
Denaprint Black PN

ASSISTANT DYES

Denaprint Yellow P6G
Denaprint Brilliant Orange P2R
Denaprint Red P4BN
Denaprint Brilliant Blue P3R
Denaprint Turquaz Blue PGR

DARK NAVY & BLACKS

Denaprint Navy P2R
Denactive Navy Blue HF
Denaprint Black PGR
Denactive Black DG

DATA ABOUT FASTNESS PROPERTIES:

The fastness properties indicated in the shade card were determined on bleached, mercerised cotton with the concentrations mentioned.

Washing Fastness	ISO 105 C06- C2S
Oxidative Washing Fastness	ISO 105 C09
Water Fastness	ISO 105 E01
Perspiration Fastness	ISO 105 E04
Light Fastness	DIN EN ISO 105 B02
Perspiration Light Fastness	DIN EN ISO 105 B07
Rubbing Fastness	ISO 105 X12

ECOLOGICAL INFORMATION:

The DENAPRINT range fully complies with the requirements on the limits for impurities or by-products as specified in the MRSL of ZDHC (current version 2.0, April 2021, refer to www.roadmaptozero.com).



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