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dyes

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[www.denadyes.com](http://www.denadyes.com)

# DENAPERS FL DYES

Fluorescent or highly brilliant dyes to achieve dyeings for fashionable sport and leisurewear.



Yellow FL-8G  
1.0% 2.0%

Red FL-G  
1.0% 2.0%

Red FL-BG  
1.0% 2.0%

C.I. Number		Yellow 82	Red 277	Red 362
pH Dependency		5-5.5	5-5.5	5-5.5
Energy Level		M	M	M
Washing Fastness	AC	4-5	4-5	4
	CO	5	4-5	4-5
	PA	3-4	3-4	3-4
	PES	4-5	4-5	4-5
	PAN	4-5	4-5	4-5
	WO	4	4-5	4
Light Fastness	1/1SD	3-4	3-4	4
Sublimation Fastness		4	5	5
Fastness to Chlorined Water	20 ppm	4-5	4-5	4-5
Dyeing Properties	HT	★	★	★
	Termosol	★	★	★
	Carrier	★	★	★
	Printing	★	★	★

# DENAPERS ME DYES

Rapid dyeing range with excellent combination options and dispersion stability for universal applications. Particularly suitable for dyeing wound packages.



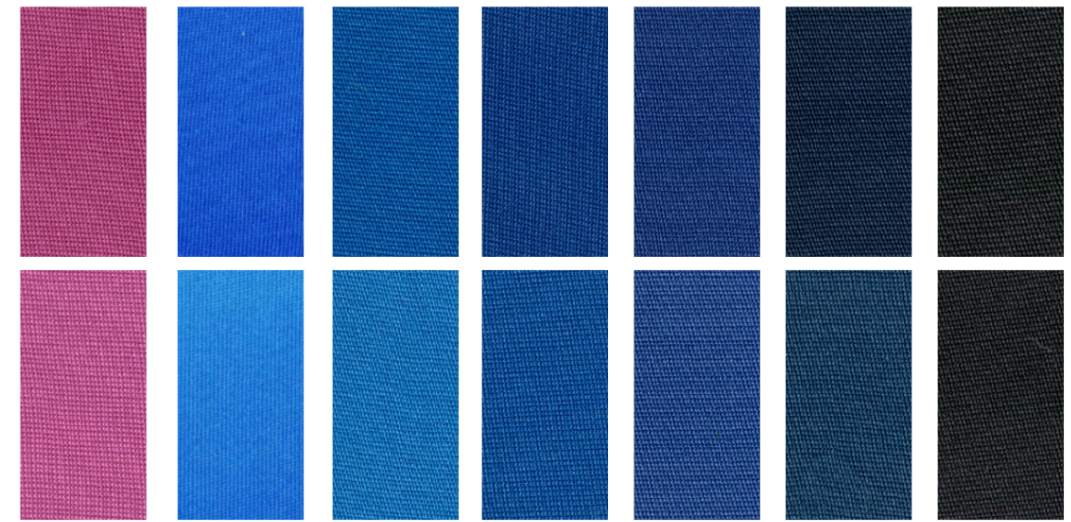
Yellow ME-4G 1.0% 2.0%    Yellow Br. ME 1.0% 2.0%    Red ME-FB 1.0% 2.0%    Red ME-3B 1.0% 2.0%    Red ME-4RB 1.0% 2.0%    Rubine ME 1.0% 2.0%    Scarlet ME-6S 1.0% 2.0%

C.I. Number		Yellow 211	Mix	Red 60	Red 343	Red 73	Mix	Red 153
pH Dependency		4-8	4-8	3-9	4-8	4-7	3-7	4-8
Energy Level		M	M	L	M	M	M	H
Washing Fastness	AC	4-5	4-5	4	4	4-5	4-5	4
	CO	5	4-5	5	4-5	4-5	4	4-5
	PA	4-5	4-5	3-4	3-4	4-5	4-5	3-4
	PES	5	5	4	4-5	5	5	4-5
	PAN	5	5	4-5	4-5	5	5	4-5
	WO	4-5	4-5	4	4	4-5	4-5	4
Light Fastness	1/1 SD	7	6-7	6	5	6-7	6-7	4-5
Sublimation Fastness		3-4	4-5	3	4	4-5	4	4
Fastness to Chlorinated Water	20 ppm	4-5	4-5	4-5	4+	4-5	4	4-5
Dyeing Properties	HT	★	★	★	★	★	★	★
	Termosol	★	★	★	★	★	★	★
	Carrier	★	★	★	★	★	★	★
	Printing	★	★	★	★	★	★	★



# DENAPERS ME DYES

Rapid dyeing range with excellent combination options and dispersion stability for universal applications. Particularly suitable for dyeing wound packages.



Violet ME-RL 1.0% 2.0%  
 Blue ME-3RL 1.0% 2.0%  
 Blue ME-4RL 1.0% 2.0%  
 Blue ME-5RB 1.0% 2.0%  
 D. Blue ME-3RT 1.0% 2.0%  
 Navy ME ECO 1.0% 2.0%  
 Black ME-RN 3.0% 5.0%

C.I. Number		Violet 26	Blue 366	Blue 56	Blue 183	Blue 148	Mix	Mix
pH Dependency		4-6	4-6	3-9	4-6	4-6	4-8	3-8
Energy Level		M	L	L	M	M	M	M
Washing Fastness	AC	4	4	4	4-5	4	4-5	4-5
	CO	4-5	5	4	4-5	4-5	4-5	4-5
	PA	4	3-4	3	4	4	3	3-4
	PES	4	4-5	4-5	4-5	4-5	4-5	5
	PAN	5	4-5	4-5	4-5	4-5	4-5	5
	WO	4-5	4	4	4	4	4	4-5
Light Fastness	1/1SD	6-7	6	6	6	4-5	5-6	5-6
Sublimation Fastness		3-4	3-4	3	4	3-4	3-4	4
Fastness to Chlorined Water	20 ppm	5	4-5	4	4	4	4+	4-5
Dyeing Properties	HT	★	★	★	★	★	★	★
	Termosol	★	★	★	★	★	★	★
	Carrier	★	★	★	★	★	★	★
	Printing	★	★	★	★	★	★	★



# DENAPERS PS DYES

Disperse dye range ,suitable for printing and thermosol dyeing processes, providing high sublimation fastness



Yellow PS-6G  
1.0% 2.0%

Yellow Br. PS-2R  
1.0% 2.0%

Orange PS-3R  
1.0% 2.0%

Red PS-BEL  
1.0% 2.0%

Red PS-5B  
1.0% 2.0%

Red PS-RB  
1.0% 2.0%

Scarlet PS-2BL  
1.0% 2.0%

C.I. Number		Yellow 114	Orange 30	Orange 80	Red 92	Red 167	Red 177	Red 152
pH Dependency		4-7	4-8	4-8	3-9	4-7	4-7	4-6
Energy Level		H	H	H	H	H	H	H
Washing Fastness	AC	4	4-5	4-5	4-5	4	4	4
	CO	5	5	5	5	4-5	4-5	4-5
	PA	4	4-5	4-5	4	4	4	4-5
	PES	5	5	5	4-5	4-5	4-5	4-5
	PAN	5	4-5	4-5	5	4-5	4-5	4
	WO	4	4	4	4	4	4	4-5
Light Fastness	1/1SD	7	7	7	6	5-6	5-6	5
Sublimation Fastness		4-5	4	4	4-5	4-5	4-5	4
Fastness to Chlorined Water	20 ppm	4-5	4-5	4-5	4-5	3-4	3-4	3-4
Dyeing Properties	HT	★	★	★	★	★	★	★
	Termosol	★	★	★	★	★	★	★
	Carrier	★	★	★	★	★	★	★
	Printing	★	★	★	★	★	★	★

# DENAPERS PS DYES

Disperse dye range ,suitable for printing and thermosol dyeing processes, providing high sublimation fastness



Violet PS-3B  
1.0% 2.0%

Brill Blue PS-BG  
1.0% 2.0%

Blue PS-RD  
1.0% 2.0%

Navy Blue PS-G  
1.0% 2.0%

Black PS-R  
3.0% 5.0%

C.I. Number		Violet 63	Blue 60	Blue 165	Blue 79	Mix
pH Dependency		4-7	4-9	4-6	4-6	4-8
Energy Level		H	H	H	H	H
Washing Fastness	AC	4	4-5	4-5	4-5	3-4
	CO	4-5	5	5	5	4-5
	PA	4	4-5	4	4	4
	PES	4-5	5	5	4-5	4-5
	PAN	4	4-5	4-5	4-5	4-5
	WO	3	4-5	4	4-5	4
Light Fastness	1/1 SD	4-5	6-7	5-6	5	4-5
Sublimation Fastness		3-4	4-5	4-5	4-5	4-5
Fastness to Chlorined Water	20 ppm	3-4	4+	4-5	3-4	4
Dyeing Properties	HT	★	★	★	★	★
	Thermosol	★	★	★	★	★
	Carrier	★	★	★	★	★
	Printing	★	★	★	★	★

# DENAPERS PS-ECO DYES

Standard dyes, sublimation fast, with good cost-benefit-ratio that meet highest ecological standards.



Yellow Br. PS-2R ECO  
1.0% 2.0%

Red PS-5B ECO  
1.0% 2.0%

Black PS-R ECO  
3.0% 5.0%

C.I. Number		Orange 30	Red 167	Mix
pH Dependency		4-8	4-7	4-9
Energy Level		H	H	H
Washing Fastness	AC	4	4-5	3-4
	CO	4-5	5	4-5
	PA	4	4-5	4
	PES	4-5	5	4-5
	PAN	4	4-5	4-5
	WO	3	4-5	4
Light Fastness	1/1 SD	4-5	6-7	4-5
Sublimation Fastness		3-4	4-5	4-5
Fastness to Chlorined Water	20 ppm	3-4	4+	4
Dyeing Properties	HT	★	★	★
	Termosol	★	★	★
	Carrier	★	★	★
	Printing	★	★	★



# DENAPERS HRD DYES

Recommended for critical pale shades dyeings.



Red HRD  
1.0% 2.0%

Blue HRD  
1.0% 2.0%

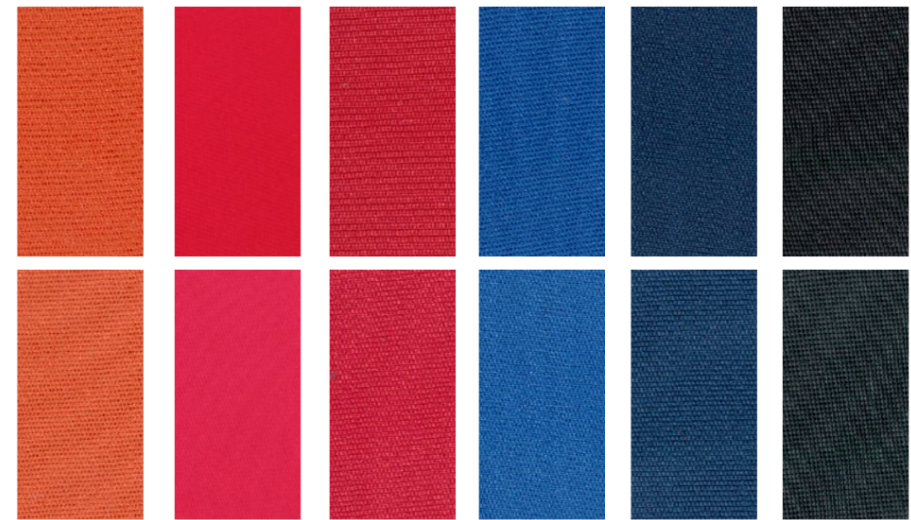
		Red HRD 1.0% 2.0%	Blue HRD 1.0% 2.0%
C.I. Number		Mix	Mix
pH Dependency		4-8	4-8
Energy Level		M	M
Washing Fastness	AC	4	4-5
	CO	5	5
	PA	4-5	5
	PES	4-5	4-5
	PAN	4-5	4-5
	WO	4	4-5
Light Fastness	1/1 SD	6	5-6
Sublimation Fastness		3-4	3
Fastness to Chlorined Water	20 ppm	3-4	3-4
Dyeing Properties	HT	★	★
	Termosol	★	★
	Carrier	★	★
	Printing	★	★

# DENAPERS HW DYES

Large-molecule disperse dyes with a high sublimation fastness and with the highest wet fastness properties

## Characteristic of Dyes

- High temperature dyes.
- Variety of high washing fastness; excellent dyeing performance.
- Excellent sublimation fastness and thermal migration.
- Suitable for dyeing of polyester/cotton, and polyester/viscose blended fabrics.
- Staining slightly on different fibers.
- In dyeing, buffer system is necessary for controlling PH value .



Golden Yellow HW 1.0% 2.0%  
 Red HW 1.0% 2.0%  
 Rubine HW 1.0% 2.0%  
 Blue HW 1.0% 2.0%  
 Navy HW 1.0% 2.0%  
 Black HW 3.0% 5.0%

C.I. Number		Mix	Mix	Mix	Mix	Mix	Mix
pH Dependency		4-6	4-6	4-6	4-6	4-6	4-6
Energy Level		H	H	H	H	H	H
Washing Fastness	AC	4	4-5	4-5	4-5	4	4-5
	CO	5	4-5	4-5	4-5	5	5
	PA	4	4-5	4-5	4-5	5	4-5
	PES	5	4-5	4-5	4-5	5	5
	PAN	5	4-5	4-5	4-5	5	5
	WO	4	4	4	4-5	3	4-5
Light Fastness	1/1 SD	7	6	6	6	6	6-7
Sublimation Fastness		4-5	4	4	4-5	4-5	4-5
Fastness to Chlorined Water	20 ppm	4-5	4-5	3-4	4-5	4	4-5
Dyeing Properties	HT	★	★	★	★	★	★
	Termosol	★	★	★	★	★	★
	Carrier	★	★	★	★	★	★
	Printing	★	★	★	★	★	★

## DENAPERS SERIES:

Consider the properties of the series in dye selection;

<b>FL SERIES</b> Fluorescent or highly brilliant dyes for fashionable sport and leisurewear.	<b>ME SERIES</b> Compact range of good combining highly concentrated and economical dyes.	<b>PS SERIES</b> suitable for printing and thermosol dyeing processes, providing high sublimation fastness	<b>HW SERIES</b> High sublimation fastness and with the highest wet fastness
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## ENERGY LEVEL:

L = low  
 M = medium  
 H = high

## ECOLOGICAL INFORMATION:

The DENAPERS 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](http://www.roadmaptozero.com)).

## 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	AC= staining on acetate
Light Fastness	DIN EN ISO 105 B02	CO= staining on cotton
Sublimation Fastness	ISO 105 P01	PA= staining on polyamide 66
Fastness to Chlorined Water	ISO 105 E03	PES= staining on polyester
		PAN= staining on polyamide/elastane
		WO= staining on wool

## DATA ABOUT DYEING PROCESS:

HT High-temperature process (130 °C)  
 Carrier Dyeing process at 98 – 110 °C with the addition of carriers  
 Thermosol Continuous process

- suitable
- moderate
- unsuitable

The appearance of dyes can vary due to different manufacturing methods. However, this does not affect the colour on the textile or the dye properties and fastnesses. The colour intensity is normally set to 100 %.

The data contained in this shade card is given to the best of our knowledge and belief. It does not guarantee specific product properties. All information is subject to change without notice.





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