



DENAPERS[®] ME

EXCELLENT COMBINATION
OPTIONS AND
DISPERSION STABILITY



DENAPERS® ME Serie

Rapid dyeing range with excellent combination options dispersion stability for universal applications

Standard dyes with good cost-benefit-ratio that meet ecological standards.

Medium-molecule disperse dyes with good levelling and migration properties

Suitable for dyeing PES and PES/WO blends.



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	★	★	★	★	★	★	★

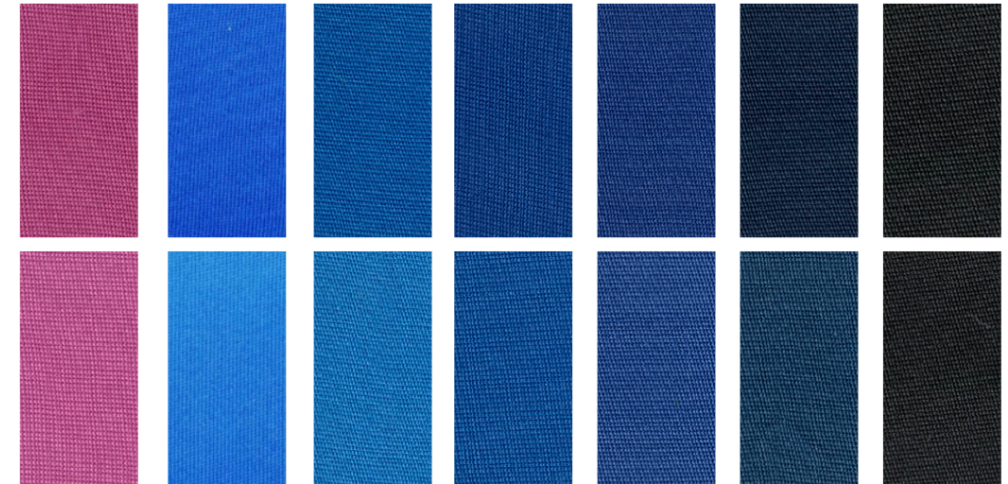
DENAPERS® ME Serie

Rapid dyeing range with excellent combination options dispersion stability for universal applications

Standard dyes with good cost-benefit-ratio that meet ecological standards.

Medium-molecule disperse dyes with good levelling and migration properties

Suitable for dyeing PES and PES/WO blends.

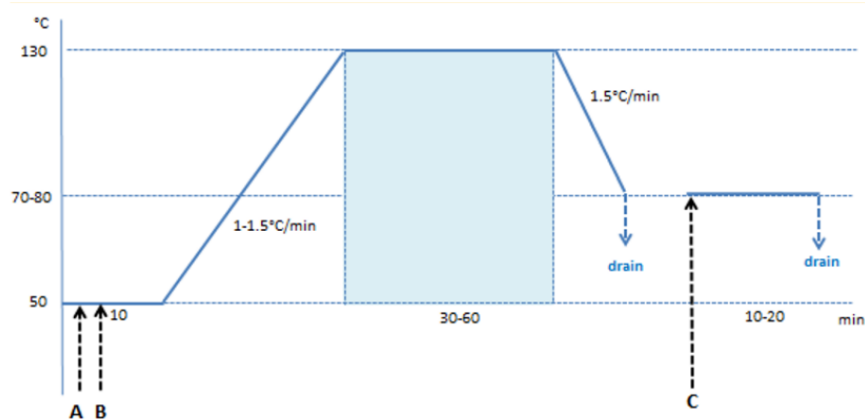


Violet ME-RL 1.0% 2.0%
 Blue ME-3RL 1.0% 2.0%
 Blue ME-4RL 1.0% 2.0%
 Blue ME-5RB 1.0% 2.0%
 D. Blue ME-3RT 1.0% 2.0%
 Navy ME ECO 1.0% 2.0%
 Black ME-RN 3.0% 5.0%

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	1/1 SD	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 Chlorinated Water	20 ppm	5	4-5	4	4	4	4+	4-5
Dyeing Properties	HT	★	★	★	★	★	★	★
	Termosol	★	★	★	★	★	★	★
	Carrier	★	★	★	★	★	★	★
	Printing	★	★	★	★	★	★	★

DYEING METHOD OF 100% POLIESTER

Dyeing temperature and dyeing time differ with the form of the material, the dye concentration and dyeing apparatus. Therefore it is important to select the suitable dyeing condition..



A	Denpol Pes Konz	1g/l
	Acid	pH 4.5
B	DENAPERS PS	x g/l
C	Caustic (NaOH 38°Be)	3g/l
	Dng Clean AR	1-2g/l
20 min. at 70-80°C		



Rinse:
10 min at 70°C rinse warm, cold and drain



Neutralize:
5 min pH: 6- 6.5 neutralization with acetic acid at 50°C, 10 min rinse and drain

*Without reduction cleaning; A + B + rinse

*If reduction cleaning desired; A + B + C + rinse + neutralize

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 Chlorinated 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 %.

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).



Colorful and Smart Solution

