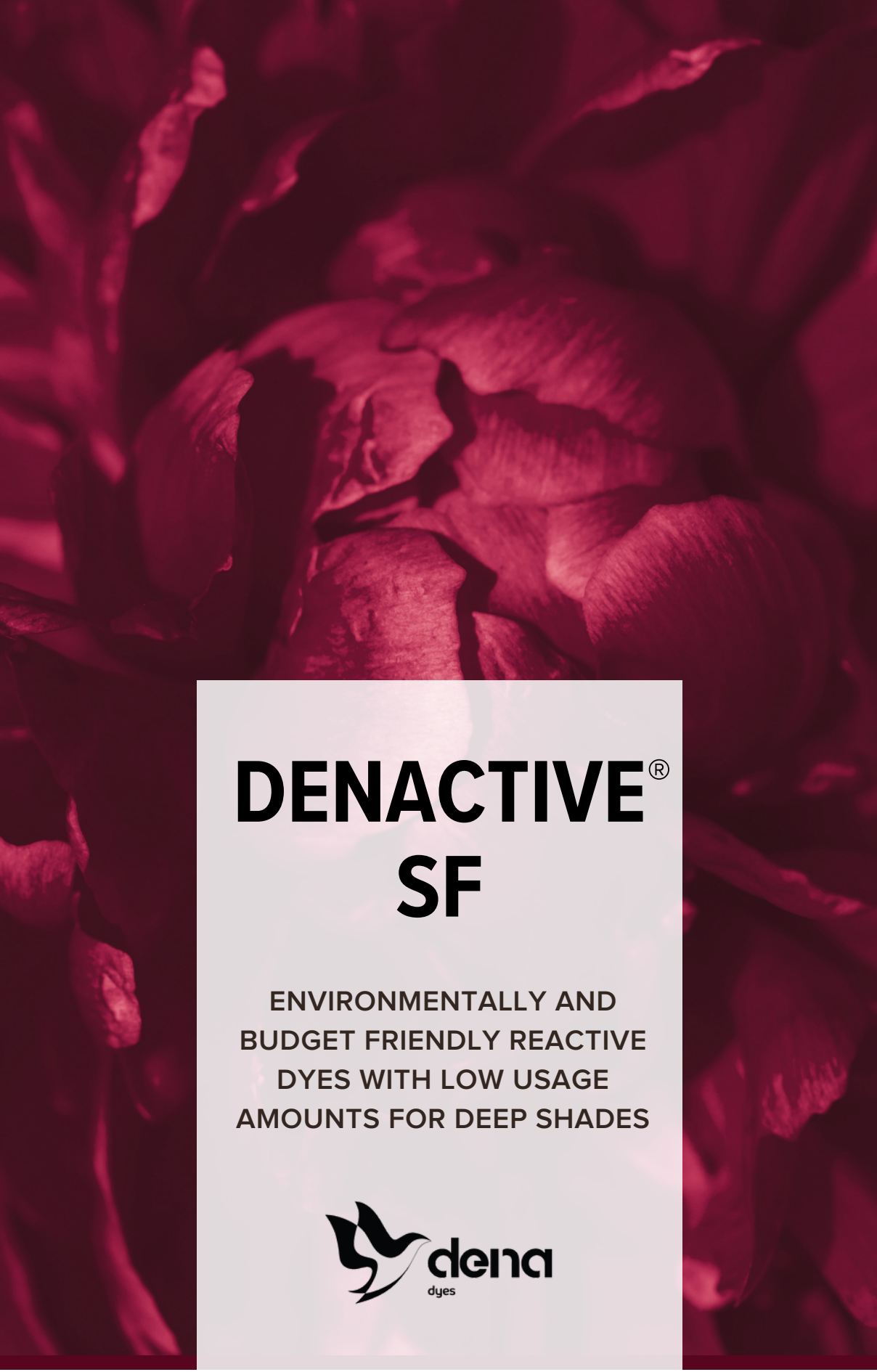


DENACTIVE® SF

ENVIRONMENTALLY AND BUDGET FRIENDLY REACTIVE DYES WITH LOW USAGE AMOUNTS FOR DEEP SHADES

dena dyes

DENACTIVE® SF

Excellent combination for super deep and dark shades.

DENACTIVE SF dyestuffs are bi-reactive. The combination of two different VS groups give these dyestuffs exceptional affinity and fixation with good leveling due to balanced primary and secondary exhaustion.

- High-concentration reactive dyestuffs for eco-friendly dyeing of the deepest shades with minimum usage of dye.
- This serie contain dischargeable dyestuffs.
- They do not change color tone in washing and finishing applications after dyeing.
- Good fastness results.
- Good leveling due to balanced primary and secondary exhaustion.
- It is suitable for dyeing methods such as exhaust dyeing, cold pad batch and pad steam.

Fastness Test Results

In dyeing cotton with reactive dyes according to the exhaust method, the exhaustion and fixation efficiency is approximately 80-90% in light tones and 60-70% in medium tones. In other words, 30-40% dyestuff is poured into the channel. However, in terms of the use of resources and its impact on the environment, it is desired to use effective dyestuffs with higher exhaustion and fixation. DENACTIVE SF series are ecological dyes with high dyeing efficiency. They reduce the amount of dyestuff usage almost in half.

Reactive Yellow 145 %2,2
Reactive Red 195 %1
Reactive Blue 221 %1,2

Total usage of dyestuff:
%4,40

Denactive Yellow SF %1,18
Denactive Maroon SF %0,36
Denactive Blue SF %0,78

Total usage of dyestuff:
%2.32

Reactive Yellow 145 %1,8
Reactive Red 195 %1,4
Reactive Blue 222 %2,0

Total usage of dyestuff:
%5,20

Denactive Yellow SF %1
Denactive Maroon SF %0,52
Denactive Blue SF %1,8

Total usage of dyestuff:
%3,32

DENACTIVE® SF

Dye Selection

The DENACTIVE SF 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, December 2022, refer to www.roadmaptozero.com).

Solubility (25°C)	Neutral- gr/lt
Water Fastness	
Fastness to Chlorine Water	20 ppm
Washing Fastness	AC CO PA PES PAN WO
Oxidative Washing Fastness	1/1 SD
Perspiration Fastness	Acid Alkaline
Light Fastness	
Dischargebility	
Dyeing Properties	Exhaust Pad Batch P-Dry P-Steam

Yellow SF 1.0% 2.0%	Amber SF 1.0% 2.0%	Orange SF 1.0% 2.0%	Red SF 1.0% 2.0%	Maroon SF 1.0% 2.0%
100	100	100	100	100
4-5	4	4	4-5	4-5
3	4	4	4	4-5
5	5	5	5	5
4-5	5	4-5	4-5	4
5	5	5	5	5
5	5	5	5	5
5	5	5	5	5
5	5	5	5	5
4 On T.	4 On T.	4 On T.	4 On T.	4 On T.
4-5	5	4-5	5	4-5
4-5	5	4-5	5	4-5
4-5	4-5	4	4-5	4
(+)	+	-	(+)	(+)
★	★	★	★	★
★	★	★	★	★
★	★	★	★	★

DENACTIVE® SF

Dye Selection

DATA ABOUT FASTNESS PROPERTIES:

The fastness properties indicated in the shade card were determined on bleached, mercerised cotton with the concentrations mentioned. The fastness properties indicated in this shade card were determined on 1/1 SD standard depth dyeings on bleached cotton.

Water Fastness	EN ISO 105 E01
Fastness to Chlorine Water	EN ISO 105 E03
Washing Fastness	ISO 105 C06- C2S
Oxidative Washing Fastness	ISO 105 C09
Perspiration Fastness	EN ISO 105 E04
Light Fastness	DIN EN ISO 105 B02

DISCHARGEBILITY:

+ suitable for white discharge
(+) suitable for coloured discharge
– not dischargeable

DATA ABOUT DYEING PROCESS:

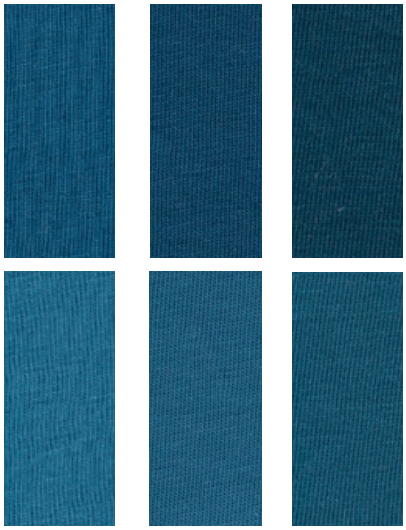
Exhaust Pad Batch	Isotermal process (60 °C) Silicate 50 Method; This is the standard procedure for liquor temperature of 20-30°C.
P-Dry P-Steam	Continuous process

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. They provide information on the properties of our products, but they don't guarantee specific product properties. All information is subject to change without notice.

Solubility (25°C)	Neutral- gr/lt
Water Fastness	
Fastness to Chlorine Water	20 ppm
Washing Fastness	AC CO PA PES PAN WO
Oxidative Washing Fastness	1/1 SD
Perspiration Fastness	Acid Alkaline
Light Fastness	
Dischargebility	
Dyeing Properties	Exhaust Pad Batch P-Dry P-Steam



Blue SF 1.0% 2.0%	Navy Blue SF 1.0% 2.0%	Navy SF-W 1.0% 2.0%
100	100	100
4-5	4-5	5
3	3	2-3
5	5	5
4	4-5	4
5	5	5
5	5	5
5	5	5
5	5	5
4 On T.	4 On T.	2-3 Off T.
4-5	4-5	5
4-5	4-5	5
4	3-4	3
(+)	-	-

dena
dyes

Colorful and Smart Solution

discover more