



DENACTIVE[®] HF

REACTIVE DYES WITH HIGH
LIGHT FASTNESS & OXIDATIVE
WASHING FASTNESS



DENACTIVE® HF Serie

Enjoy long-lasting color shine on your favorite clothes.

DENACTIVE HF series are reactive dyestuffs with high light, perspiration light, weather conditions and oxidative washing fastness even in very light and brilliant tones.



High oxidative washing fastness (ISO 105 C09)



High light (ISO 105 B02) and perspiration light fastness (ISO 105 B07)



It does not change color tone in washing and finishing applications after dyeing.



Very good color fastness to natural gas used in drying



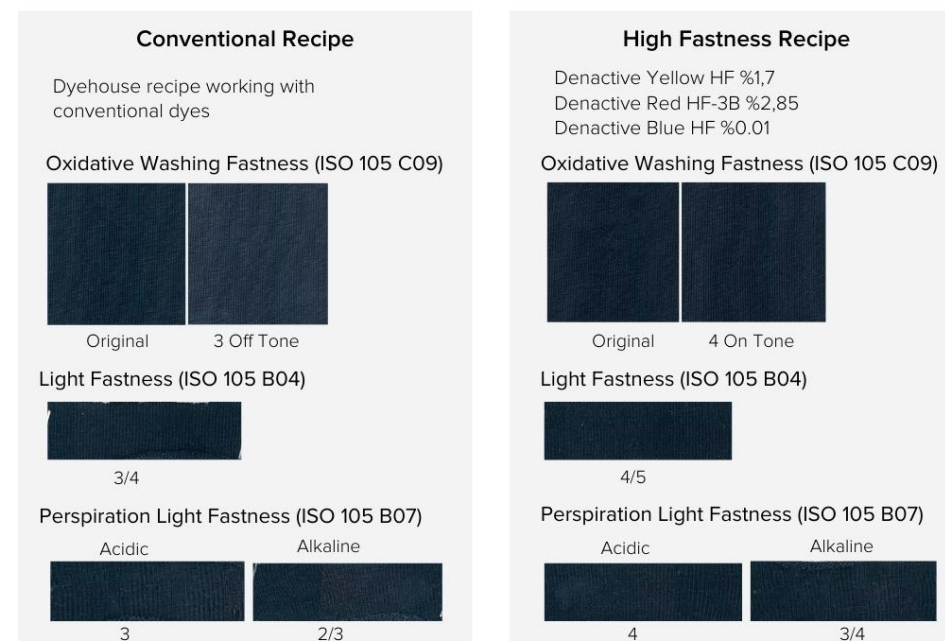
Accurate dyeing in one go and high repeatability.



It is suitable for dyeing methods such as exhaust dyeing, cold pad batch and pad steam.

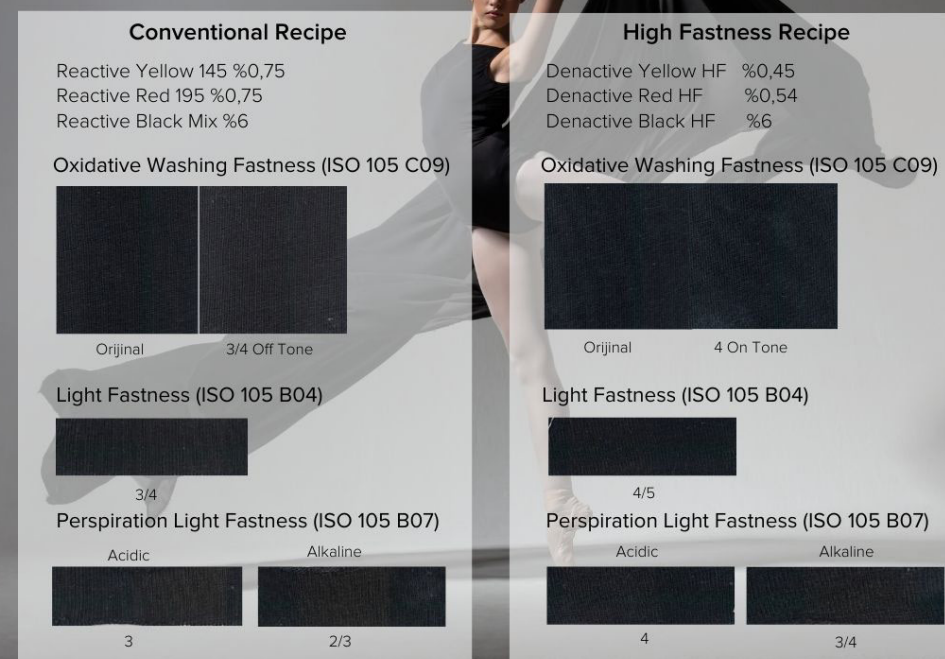
Fastness Test Results

The fastness values of the recipes studied with the HF series were compared with conventional dyes. The results are presented below.



Wear your blacks for longer without fading

DENACTIVE HF series prevents rapid fading problems especially in dark cellulosic fabrics. Thanks to its high light fastness and very good oxidative washing results, it offers the comfort of use in the same color tone for a much longer time.



DENACTIVE® HF

Dye Selection

The DENACTIVE HF 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).



Brill. Yellow HF 1.0% 2.0%
 Ultra Yellow HF 1.0% 2.0%
 Yellow HF 1.0% 2.0%
 Red HF 1.0% 2.0%
 Brown HF 1.0% 2.0%
 Olive HF 1.0% 2.0%

		Brill. Yellow HF 1.0% 2.0%	Ultra Yellow HF 1.0% 2.0%	Yellow HF 1.0% 2.0%	Red HF 1.0% 2.0%	Brown HF 1.0% 2.0%	Olive HF 1.0% 2.0%
Solubility (25°C)	Neutral- gr/lt	80	200	150	100	100	100
Water Fastness		4-5	4-5	5	4-5	4-5	4-5
Fastness to Chlorine Water	20 ppm	4	4	4	3	4	4-5
Washing Fastness	AC	5	4-5	5	5	4-5	5
	CO	4-5	4	4-5	4-5	4	4
	PA	5	5	5	5	5	5
	PES	5	5	5	5	5	5
	PAN	5	5	5	5	5	5
	WO	5	5	5	5	5	5
Oxidative Washing Fastness	1/1 SD	4 Off T.	4-5 On T.	4 On T.	4 On T.	4 On T.	4-5 On T.
Perspiration Fastness	Acid	4-5	5	4-5	4-5	4-5	4-5
	Alkaline	4-5	5	5	4-5	4-5	4-5
Light Fastness		4	5	5	4-5	5	5
Dischargeability		(+)	(+)	+	(+)	(+)	+
Dyeing Properties	Exhaust	★	★	★	★	★	★
	Pad Batch	★	★	★	★	★	★
	P-Dry P-Steam	★	★	★	★	★	★

DENACTIVE® HF

Dye Selection



Green HF 1.0% 2.0% Blue HF 1.0% 2.0% Dark Blue HF 1.0% 2.0% Navy Blue HF 1.0% 2.0% Black HF 4.0% 6.0%

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

DISCHARGEABILITY:

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

DATA ABOUT DYEING PROCESS:

Exhaust Isothermal process (60 °C)
 Pad Batch 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.

		Green HF 1.0% 2.0%	Blue HF 1.0% 2.0%	Dark Blue HF 1.0% 2.0%	Navy Blue HF 1.0% 2.0%	Black HF 4.0% 6.0%
Solubility (25°C)	Neutral- gr/lt	200	100	100	100	150
Water Fastness		4-5	4-5	4-5	4-5	5
Fastness to Chlorine Water	20 ppm	2-3	3-4	4-5	3-4	3
Washing Fastness	AC	4	4-5	4-5	4-5	5
	CO	3-4	4-5	4	4	4
	PA	4-5	5	5	5	5
	PES	5	5	5	5	5
	PAN	5	5	5	5	5
	WO	5	5	5	5	5
Oxidative Washing Fastness	1/1 SD	3-4 On T.	4 On T.	4-5 On T.	4 On T.	4 On T.
Perspiration Fastness	Acid	4	4-5	4-5	4	4-5
	Alkaline	4	5	4-5	4	4
Light Fastness		5	5	4-5	4	4-5
Dischargeability		(+)	(+)	(+)	(+)	+
Dyeing Properties	Exhaust					
	Pad Batch					
	P-Dry P-Steam					



Colorful and Smart Solution

