



ITOMILLING
Dyes On Nylon

MAGNACOLOURS[®]
IMAGINATION INK[®]

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ITOMILLING dyes are traditional acid milling dyes used on wool and on nylon for bright shades offering high fastness properties.

ITOMILLING DYEING METHOD

Recipe: x% Dye
0.5g/l ITOQUEST LJ3-12
Acetic Acid to give pH 4.5-6
0.5-3% ITOLEVELLER WOPA

Method: Heat to 40°C.
Add Acetic acid to give desired pH, run for 10 minutes.
Add chemicals, run for 10 minutes.
Add dyes, run for 10 minutes.
Heat at 2°C/min to 100°C.
Run for 40 to 60 minutes.
Cool at 2°C/min to 60°C.
Drop liquor and rinse.

After Treatment:

Wet fastness of shades can be improved by after treating with ITOFIX NYGM. ITOFIX NYGM can be used in the dyebath for one bath method or as an after treatment to improve fastness.

FASTNESS TEST METHODS

The fastness properties were tested at 1/1 standard depths.

The fastness is given for untreated wool.

Light Fastness	ISO 105-B02
Wash Fastness	ISO 105-C02
Perspiration Fastness	ISO 105-E02
Water Fastness	ISO 105-E01



SYMBOLS USED IN FASTNESS COLUMNS

CS Change of shade

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ITOMILLING		Fastness Properties				
		Sol	Light	Wash 50°C	Alk Persp	Water
Dyed at 1%, Navy and Black at 2%		90°C	1/1	CS	CS	CS
Red 10B 140% Violet 054		100	4	5	4/5	4/5
Rubine A5BL 180% Red 299		35	6	4	4	4/5
Bordeaux V Red 119		25	5	4	4/5	4
Violet FBL Violet 48		60	5/6	4/5	4/5	4/5
Green GTSC 160% Green 025		55	5/6	5	4	4
Green GW 130% Green 027		70	6	5	4/5	4/5
Green 6GW Green 081		40	5	4/5	4/5	4/5
Green 5GW 200% Green 028		40	5	4/5	4/5	4/5
Turquoise 3G Blue 185		50	2	5	4/5	4/5
Blue RS Blue 045		60	5/6	3	4	4/5
Blue 3RW Blue 204		70	4	4/5	4/5	4/5
Blue NBL 150% Blue 080		40	6	4/5	4/5	4
Blue NGL 180% Blue 127:1		60	5	4	5	5
Blue 2RW Blue 140		70	4	4	4/5	4/5
Blue BLW Blue 203		50	6	4	4/5	4/5
Blue GWF Blue 221		100	5	5	4/5	4/5
Blue RL 200% Blue 260		50	4/5	4	4/5	5
Blue AFN Blue 264		40	4/5	4/5	4/5	4/5

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		Sol	Light	Wash 50°C	Alk Persp	Water
Dyed at 1%, Navy and Black at 2%		90°C	1/1	CS	CS	CS
Yellow 5GW 130% Yellow 127		70	5	4	4	4/5
Yellow 4GL Yellow 079		100	4/5	4/5	4/5	4/5
Yellow GR Conc Yellow 042		30	5	4/5	4/5	4/5
Yellow 5GN Yellow 110		50	5	4/5	4/5	4/5
Yellow M3R Orange 067		80	7	4/5	4	4/5
Orange SLF 200% Orange 116		50	6	4	4/5	4/5
Orange GSN Orange 095		80	4/5	4	4	5
Scarlet FWG Red 111		65	4	4/5	4/5	4/5
Scarlet BR Red Unk		50	4/5	4/5	4/5	4/5
Red FGS Red Unk		90	4	4/5	4/5	4/5
Red BW Red 138		80	4/5	5	4/5	4/5
Red CB Red 249		60	5	4/5	4/5	4/5
Red RLS Red 260		70	4	5	4/5	5
Red Brown SR Brown 283		80	6	5	4/5	4/5
Red AF2RBL Red 336		50	6	4/5	4/5	4/5
Red A3G Red 447		90	4	4/5	4/5	4/5
Red 3BW Red 274		60	3/4	4/5	4/5	4/5
Red 3BN Red 131		100	4/5	5	4/5	4/5

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ITOMILLING		Fastness Properties				
		Sol	Light	Wash 50°C	Alk Persp	Water
Dyed at 1%, Navy at 2%		90°C	1/1	CS	CS	CS
Blue GLF 150% Blue 281		70	6	4/5	4/5	4/5
Blue BLN Blue 350		80	5	4	4/5	4/5
Blue G 330% Blue 090		60	3	4/5	4/5	4/5
Navy DR 110% Blue 193		60	7	4/5	4/5	5
Navy R 182% Blue 113		70	5	4	4	3

ITOACID		Fastness Properties				
		Sol	Light	Wash 50°C	Alk Persp	Water
Dyed at 2%		90°C	1/1	CS	CS	CS
Black Wa Black 052		100	7	4/5	4/5	4/5
Black LDN 140% Black 172		100	7	4/5	4/5	4/5
Black MR 140% Black 194		100	7	5	4/5	4/5

WOOL & NYLON DYE RANGES



Range	Features
ITOACID	Disulphonated premetalised blacks.
ITOLEVELLING	Acid levelling dyes where levelness and penetration is important. Also contain fluorescent dyes.
ITOMILLING	Milling dyes for use for brighter shades with overall good fastness.
ITOMILLING MF	Metal free milling dyes.
ITOLAN	Premetalised dyes where excellent wet and light fastness is required.
ITOSET	Synergistic range offering a compact compatible range for wool and nylon. Ideal for Wool/Nylon blends giving on tone balance in blends.
ITOWOL	Wool Reactive dyes for the brightest shades with the highest wet fastness.
ITOCHROME	Mordant dyes for high fastness, also give the best coverage on skittery wools.

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