



CAB CHEMICALS



ACID DYES

CAB DYES ON POLYAMIDE

INTRODUCTION

Acid / Acid Milling / Metal Complex

Dyestuff on Polyamide

This shade card illustrates Acid dyes on Polyamide fabric.

Classification

Acid, Acid Milling & Acid Metal Complex dyes have been classified on the basis of fastness and application properties. For most applications, products from the same class will perform best in combination shades. For certain applications, products from different classes may be combined advantageously to obtain desired fastness, shade and application properties. It is however, necessary to ensure desired performance through pre-trial.

Acid Dyes

These dyes have very good levelling properties. Coverage of barre is good. They are suitable for trichromatic combination shades. Acid range is especially recommended for carpet and sportswear coloration.

Acid Milling

These milling acid dyes have good wet fastness. They are preferred for dark shades. They perform best as self shades or in limited combinations.

Metal Complex Acid Dyes (1:2 metal complex dyes)

These neutral dyeing metal complex dyes have very high all round fastness. They are applied from neutral to weakly acidic dye baths. Metal Complex range is recommended for automotive furnishing and carpet coloration.

Metal Complex Acid Dyes A (1:1 metal complex dyes)

Metal Complex A dyes exhibit excellent all round fastness properties. These dyes exhaust from a strongly acidic bath.

Pretreatment of polyamide goods

The polyamide grey fabric is thoroughly scoured at boil in a bath containing.

1-2 g/l Levocol CNID (Non-ionic soap)

1-2 g/l Soda ash

This is followed by a hot and cold rinse.

General dyeing methods for acid dyestuff on Polyamide

Method 1 (Dyeing of Metal Complex A and few Acid dyes)

Enter the scoured - washed material into a bath of soft water containing :

- 2-4 gpl Sulphuric Acid 98% or
- 3-5 gpl Formic Acid 85%
- 1-2 gpl Levocol CBSE (Leveling agent)

Run the goods for 10 minutes at 40°C with pH 2-3. Add properly dissolved dyestuff and run for 10 minutes. Raise the temperature to 98°C in 30 minutes and continue dyeing for 45-60 minutes. Rinse warm and cold.

Method 2 (Dyeing of Acid, Acid Milling dyes)

Bath is prepared in soft water with

- 2-4 gpl Acetic Acid 60% or
- 1.5-3 gpl Formic Acid 85%
- 1-2 gpl Levocol CBSE*

Run the goods for 10 minutes at 40°C with pH 4.5-5.5 Add properly dissolved dyestuff and run for 10 minutes. Raise the temperature to 98°C in 30 minutes and continue dyeing for 45-60 minutes.

For complete exhaustion, add

- 1-2 gpl Acetic Acid 60% or
- 1-2 gpl Formic Acid 85%

and continue dyeing for 30 minutes

Rinse warm and cold.

Method 3 (Metal Complex Acid Dyes)

Bath is prepared in soft water with

- 2-4 gpl Ammonium Sulphate OR
- 3-4 gpl Ammonium Acetate
- 1-2 gpl Levocol CBSE*















Run for 10 minutes at 40°C with pH 5.5-6.5















Add properly dissolved dyestuff and run for 10 minutes. Raise to boil over 50 mins. and continue dyeing for 45-60 mins.







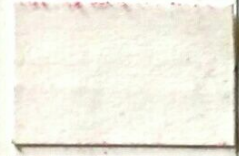
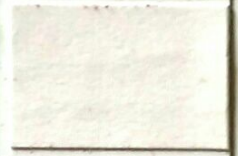
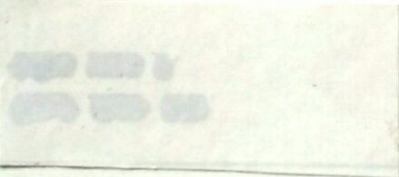





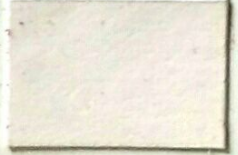
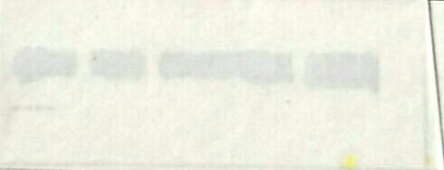
For complete exhaustion of the bath add :















0.5 - 1.5 gpl Acetic Acid 60% and continue dyeing for 20-30 minutes. Rinse warm and cold.















The information provided in the pattern card is in good faith, to the best of our knowledge and based on laboratory working conditions, hence without liability






ACID DYES		CAB DYES	FASTNESS PROPERTIES			
SHADE ON NYLON		DYES (C.I. GENERIC NAME)	Light	Washing	Perspiration	Milling
0.5%	2.0%					
		ACID YELLOW G ACID YELLOW 11	4-5	4-5	4	2-3
		ACID YELLOW 6G ACID YELLOW 186	3-4	3	3	3
		ACID ORANGE II ACID ORANGE 7	3-4	4	2-3	3
		ACID ORANGE G ACID ORANGE 10	3-4	4-5	3	4-5
		ACID SCARLET 3R ACID RED 18	4	5	3-4	4
		ACID FAST RED A ACID RED 88	2-3	3	1	2
		ACID RED F2R ACID RED 151	4	4	3-4	4

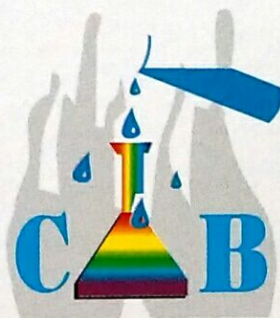
ACID DYES		CAB DYES	FASTNESS PROPERTIES			
SHADE ON NYLON		DYES (C.I. GENERIC NAME)	Light	Washing	Perspiration	Milling
0.5%	2.0%					
		ACID BLACK BX (MIX) ---	5-6	2	3	3
		ACID BLACK 10BX ACID BLACK 1	5-6	2	2-3	3
ACID MILLING						
		ACID YELLOW 5GN ACID YELLOW 110	5	5	4-5	4
		ACID YELLOW N5GN ACID YELLOW 64	6-7	5	5	-
		ACID YELLOW MR ACID YELLOW 42	4	5	4-5	3
		ACID SCARLET G ACID RED 97	3	4-5	4-5	4
		ACID RED NG (MIX) ----	3	4-5	4-5	4

ACID DYES		CAB DYES	FASTNESS PROPERTIES			
SHADE ON NYLON		DYES (C.I. GENERIC NAME)	Light	Washing	Perspiration	Milling
0.5%	2.0%					
		ACID RED RSN (MIX) ---	3	4-5	4-5	4
		ACID RED GRS (MIX) ---	3	4-5	4-5	4
		ACID MAROON V ACID RED 119	4-5	5	4-5	3-4
			3	4-5	4	4
		ACID RED 3BN ACID RED 131	4-5	4-5	4-5	3-4
		ACID RED 2BN ACID RED 249	3-4	4-5	4-5	3-4
			4-5	4-5	4	3

ACID DYES		CAB DYES	FASTNESS PROPERTIES			
SHADE ON NYLON		DYES (C.I. GENERIC NAME)	Light	Washing	Perspiration	Milling
0.5%	2.0%					
		ACID RED 10B ACID VIOLET 54	4-5	5	5	5
		ACID SULPHONE BLUE R ACID BLUE 92	5-6	4	6-4	1-2
		ACID FAST NAVY BLUE S5R ACID BLUE 113	5	4-5	4-5	3-4
ACID 1:1 METAL COMPLEX						
		ACID YELLOW GR ACID YELLOW 99	4-5	4-5	4-5	4
		ACID ORANGE G ACID ORANGE 74	5-6	4-5	4-5	5
		ACID BLACK WA ACID BLACK 52	7-8	4-5	3-4	3-4
ACID 1:2 METAL COMPLEX						
		ACID YELLOW GL ACID YELLOW 114	5-6	4-5	4-5	3-4

ACID DYES		CAB DYES	FASTNESS PROPERTIES			
SHADE ON NYLON		DYES (C.I. GENERIC NAME)	Light	Washing	Perspiration	Milling
0.5%	2.0%					
		ACID YELLOW 2GLN ACID YELLOW 59	7	4-5	4-5	4-5
		ACID YELLOW M3RL ACID YELLOW 194	5-6	4-5	4-5	3-4
		ACID ORANGE M2RL ACID ORANGE 142	6	4-5	4-5	3-4
		ACID BOURDEX MB ACID VIOLET 90	5	4-5	4-5	3
		ACID BROWN 2RL ACID BROWN 45	6-7	4-5	4-5	3-4
		ACID DARK BROWN 5R ACID BROWN 48	5-6	4-5	5	3-4
		ACID BROWN M2RL ACID BROWN 365	6-7	4-5	4-5	4

ACID DYES		CAB DYES	FASTNESS PROPERTIES			
SHADE ON NYLON		DYES (C.I. GENERIC NAME)	Light	Washing	Perspiration	Milling
0.5%	2.0%					
		ACID BLACK MSRL ACID BLACK 194	7	4	4	4
		ACID GRAY BL ACID BLACK 58	6-7	5	4-5	4-5
TPM DYES						
		ACID VIOLET 5BN ACID VIOLET 17	1-2	5	4-5	4
		ACID VIOLET 4BS ACID VIOLET 49	1-2	5	4-5	4
		ACID PATENT BLUE AS ACID BLUE 7	1-2	5	4-5	4-5
		ACID GREEN V ACID GREEN 16	3	4-5	3	3-4
		ACID GREEN 3GR (MIX) ---	1-2	5	4-5	4-5



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Mfg. Dyes & Chemicals

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