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TECHNICAL SPECIFICATION OF M DYES

M Dyes	GENERAL PROPERTIES					FASTNESS PROPERTIES								
	SOLUBILITY PARTS/ 100 AT 30 C		DYEING PROPERTIES		Fixation Temperature© (Exhaust Dyeing)	LIGHT DAY LIGHT			WASHING		HYPOCHLORITE (EFFECT STAIN)	BLEACHING		ALKALINE PERSPIRATION
	Strainingthe	30 PTS / 1000 Common Salt	Affinity	Reactivity		1/25	1/1	2/1	ISO-3 EFFECT STAIN	ISO-4 EFFECT STAIN		HYDROGEN PEROXIDE	SODA BOIL (EFFECT STAIN)	
Product Name C.I. Reactive														
Yellow M8G # Yellow 86	70	60	L	M	50	5-1	6	6-7	5 5	4-5 5	1	2 5	2-3 5	4
Yellow M4G # Yellow 22	40	20	M	M	40	5-1	6-1	6-7	5 5	4-5 5	1	3-4 5	4-5 5	4-5 5
Yellow MGR #Yellow7	30	10	H	H	40	5-6	5-6	6	5 5	5 5	4-5	4-5 5	5 4-5	5 4
G.YellowMR #Yellow 44	160	100	H	H	40	5	6	6	5 5	4-5 5	2-3	4-5 5	4-5 5	4-5 5
Brill Orange M2R #Orange 4	180	160	M	M	30	3-1	4-1	4-5	5 5	5 5	4	4 5	4-5 5	4-5 5
Brill Red M5B #Red 2	80	50	H	H	30 OR 40	4	4-5	4-5	5 4-5	4-5 4-5	1	2 4-5	4-5 3	5 3-4
Brill Red M8B #Red 11	50	10	H	H	30	3-4	4-5	4-5	5 5	4-5 4-5	4	4-5 4	4-5 3-4	4-5 2
Brill Magenta MB Violet 13	20	5	H	H	30	3-4	3-4	4	5 5	5 5	1-1	3 3	4 4-5	4-5 4-5
Brill Blue MR # Blue 4	80	40	L	M	40 OR 60	6-1	6-1	6-7	5 5	5 5	2	3-4 4-5	3-4 3	4-5 5

Blue M4GD #Blue 168	160	160	H	H	40 OR 50	3-4	4-5	5-1	5 5	4-5 5	1-2	3-4 5	3 4	4-5 4
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Technical Data

ADIACTIVE 'M' DYES

They are applicable on cellulosic materials by various following printing and dyeing methods :

(A) Printing Methods :

(i) Print (dye with alkali)	- Dry	- Steam-	-
		Wash	Dry
(ii) Print (dye with alkali)	- Dry	- Bake	-
		Wash	Dry
(iii) Print (dye without alkali)	- Dry - Nip pad (with alkali)	- Dry	-
		Wash	Dry
(iv) Pad (with alkali)	- Dry - Print (dye without alkali)	- Hang	-
		Wash	Dry
(v) Print (dye without alkali)	- Dry - Pad (Sodium Silicate)	- Batch	-
		Wash	Dry

(B) Dyeing Methods :

(1) Exhaust dyeing method : (Jigger, Winch Machines, Package dyeing machines etc.)

(2) Pad - dyeing method : (Padding Mangles).

(a) Pad (dye & Soda ash)	- batch 2 hrs.	- Wash	-
(b) Pad (dye & Soda bi carb + Soda ash)	- Batch 16-24 hrs.	- Wash	-
(c) Pad	- Dry	- Wash	-

(dye & Bicarbonate) 1-24 min. hot
flue
(d)Pad - Dry - Steam - Wash
(dye & Bicarbonate)

The illustrated shades of Adiaactive 'M' Dyes in this shade card are dyed by exhaust dyeing method.

Dyeing Procedure :

Set the dyebath at 30 °C temperature. Add half amount of dye solution and carry out dyeing for 5-10 minutes. Add remaining half amount and continue dyeing for further 5-10 minutes. Now add half amount of required salt and continue dyeing for 15 minutes. Add remaining half salt and continue dyeing for further 15 minutes.

Now add half amount of Soda ash solution and carry out dyeing for 15 minutes. Then add remaining half amount of Soda ash and continue dyeing for 40 to 45 minutes. Then wash with cold and hot water. Soap at boil for 20 minutes and cold rinse and dry.

Depth of Shade	Salt gms /l	Soda ash gms /l
Below 0.5 %	30	3
0.5 % - 2.0 %	40	4
2.0 % - 4.0 %	50	7

COLD DYES (M DYES)



Product Group - Reactive Dyes
Chemical Class - Cold
Commercial Physical Form - Powder
Commercial Name - M Dyes

Product Profile & General Properties:

Cold dye is a Reactive type dyes. Dying fabrics has never been easier. Use cold dyes for delicate fabric paints, or boil the multi-purpose dye into the garment for a permanent effect. Batik dye must be a cold dye since hot water would cause the hardened wax to melt in the dye bath. Ordinary cold water dyes are best for beginners and all contain instructions for their use.

COLD DYES : Golden Yellow M4G



TECHNICAL DATA SHEET

Product Name

Golden Yellow M4G

C.I. Number

Reactive Yellow 22

Colour Index Name

Yellow 22

0.4 %



4.0 %



GENERAL PROPERTIES

Solubility Parts/1000

Temperature

30°C

Straight

40

30 Pts/1000 common salt

20

Dyeing Properties

Substainivity	M
Reactivity	M
Fixation Temperature (Exhaust Dyeing)	40°C

FASTNESS PROPERTIES**Light / Day Light**

1 -- 25	5
1 -- 1	6
2 -- 1	6 - 7

Washing**I.S.O.3**

Effect	5
Stain	5

I.S.O.4

Effect	4 - 5
Stain	5

Bleaching

Hydrochloride	1
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Hydrogen Peroxide

Effect	3 - 4 RD
Stain	5

Soda Boil

Effect	4 - 5
Stain	5

Alkaline Perspiration

Effect	4 - 5
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COLD DYES : Golden Yellow MR**TECHNICAL DATA SHEET****Product Name****Golden Yellow MR****C.I. Number**

Yellow 44

0.4 %



4.0 %

**GENERAL PROPERTIES****Solubility Parts/1000**

Temperature

30°C

Straight

160

30 Pts/1000 common salt

130

Dyeing Properties

Substainivity

H

Reactivity

H

Fixation Temperature
(Exhaust Dyeing)

40°C

FASTNESS PROPERTIES**Light / Day Light**

1 -- 25

5

1 -- 1

6

2 -- 1

6

Washing

I.S.O.3

Effect 5

Stain 5

I.S.O.4

Effect 5

Stain 5

Bleaching

Hydrochloride 2 - 3

Hydrogen Peroxide

Effect 4 - 5 R

Stain 5

Soda Boil

Effect 4 - 5 R

Stain 5

Alkaline Perspiration

Effect 4 - 5 R

Stain 5

COLD DYES : Orange M2R



TECHNICAL DATA SHEET

Product Name

Orange M2R

C.I. Number

Reactive Orange 04

0.4 %



4.0 %



GENERAL PROPERTIES

Solubility Parts/1000

Temperature	30°C
Straight	180
30 Pts/1000 common salt	160

Dyeing Properties

Substainivity	M
Reactivity	M
Fixation Temperature (Exhaust Dyeing)	30°C

FASTNESS PROPERTIES

Light / Day Light

1 -- 25	3
1 -- 1	4
2 -- 1	4 - 5

Washing

I.S.O.3

Effect	5
Stain	5

I.S.O.4

Effect	5
Stain	5

Bleaching

Hydrochloride	4 R
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Hydrogen Peroxide

Effect	4 Br
Stain	5
Soda Boil	
Effect	4 - 5
Stain	5
Alkaline Perspiration	
Effect	4 - 5
Stain	5

COLD DYES : Red M5B



TECHNICAL DATA SHEET

Product Name

Red M5B

C.I. Number

Reactive Red 2

0.4 %



4.0 %



GENERAL PROPERTIES

Solubility Parts/1000

Temperature	30°C
Straight	80
30 Pts/1000 common salt	50

Dyeing Properties

Substanivity	H
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Reactivity	H
Fixation Temperature (Exhaust Dyeing)	30°C Or 40°C

FASTNESS PROPERTIES

Light / Day Light

1 -- 25	4
1 -- 1	4 - 5
2 -- 1	4 - 5

Washing

I.S.O.3

Effect	5
Stain	4 - 5

I.S.O.4

Effect	4 - 5
Stain	4 - 5

Bleaching

Hydrochloride	1
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Hydrogen Peroxide

Effect	2 W Br
Stain	4 - 5

Soda Boil

Effect	4 - 5
Stain	3

Alkaline Perspiration

Effect	5
Stain	3- 4



TECHNICAL DATA SHEET

Product Name

Red M8B

C.I. Number

Reactive Red 11

Colour Index Name

Red 11

0.4 %



4.0 %



GENERAL PROPERTIES

Solubility Parts/1000

Temperature

30°C

Straight

50

30 Pts/1000 common salt

10

Dyeing Properties

Substanivity

H

Reactivity

H

Fixation Temperature
(Exhaust Dyeing)

30°C

FASTNESS PROPERTIES

Light / Day Light

1 -- 25

3 - 4

1 -- 1

4 - 5

2 -- 1

4 - 5

Washing

I.S.O.3

Effect	5
Stain	5
I.S.O.4	
Effect	4 - 5
Stain	4 - 5
Bleaching	
Hydrochloride	4 W Br
Hydrogen Peroxide	
Effect	4 - 5
Stain	4
Soda Boil	
Effect	4 - 5
Stain	3 - 4
Alkaline Perspiration	
Effect	4 - 5
Stain	2

