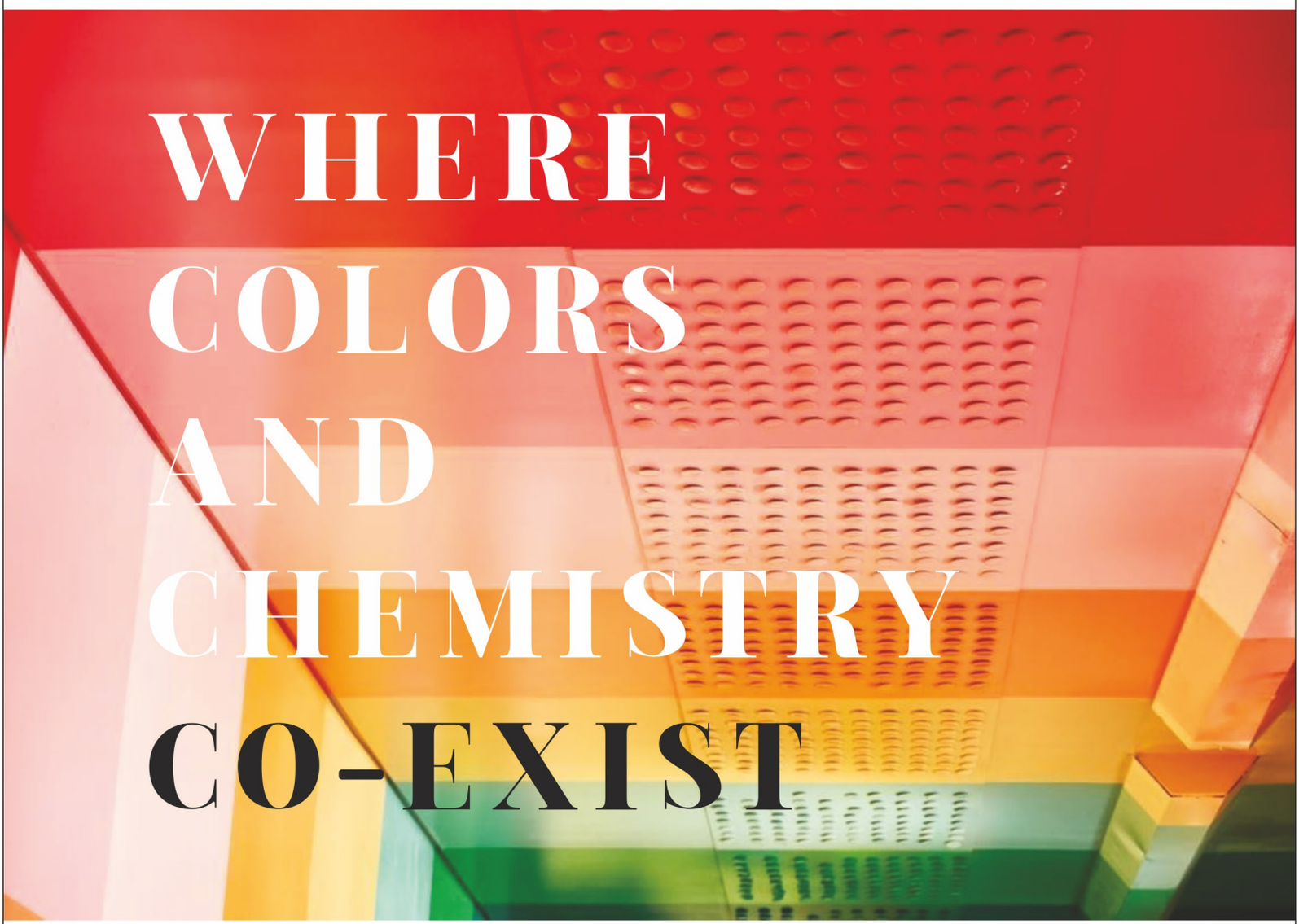

DYES MFG. COMPANY
EST. ADITYA 1993
SYNTHETIC
MADE IN INDIA
BEYOND
COLORS
'The essence of the beautiful is unity in variety.'
FELIX MENDELSSOHN
www.adityasynthetic.com



DYES MFG. COMPANY

EST. ADITYA 1993

SYNTHETIC

MADE IN INDIA

www.adityasynthetic.com



A THIRTY YEAR JOURNEY INTO THE ART OF MANUFACTURING COLORS.

Aditya Synthetic is a family owned business manufacturing reactive dyes. What started off as a small unit in Ahmedabad, has today spread its wings across many countries over multiple continents. Armed with a state-of-the-art manufacturing unit, an advanced RnD department, two high tech labs and some of the most experienced personnel in the industry, we have consistently been one of the best export houses in the country. A stickler for quality, considerate for the environment and conscious of the ever-changing demands of the customer, we have been the first choice of all sizes of clients.

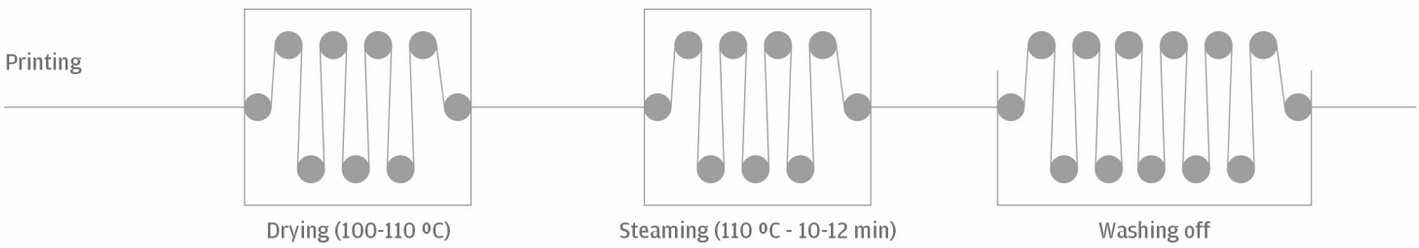
H & P DYES

INDIACTIV PRINTING SERIES	CI NO.	Shade 2.0% o.w.f.	Solubility in gpl at 30 °C	Affinity	Reactivity	Fixation Temperature °C at Steaming	Process Suitability				Other Fastness			Light Fastness AATCC 16E			Post Fastness Properties				
							Exhaust	Cold Pad Batch	Printing	Continuous	Washing Fastness ISO 105 C04	Rubbing ISO 105/X12 Dry	Rubbing ISO 105/X12 Wet	0.1%	1.0%	2.0%	Water ISO 105 E01	Chlorinated Pool Water AATCC 162:2002	Hydrogen Peroxide	Perspiration ISO 105 E04 Acid	Perspiration ISO 105 E04 Alkali
Yellow H6G	Yellow 95		80	L	M	110	NS	NS	HS	NS	4	4-5	4	3-4	4	4	4-5	3-4	3-4	4-5	4-5
Yellow H5G	Yellow 2		100	L	M	110	NS	NS	HS	NS	4	4-5	4	3-4	4	4	4-5	3-4	3-4	4	4-5
Yellow H4G	Yellow 18		150	L	M	110	NS	NS	HS	NS	5	4-5	4	4	4	4	4-5	3-4	3-4	4	4-5
Go.Yellow P2RN	Orange 12		100	M	M	110	NS	NS	HS	NS	5	4-5	4	3-4	4	4	4-5	3-4	4-5	4-5	4-5
Orange P2R	Orange 13		100	M	M	110	NS	NS	HS	NS	4-5	4	3-4	3	3-4	4	4-5	3	4	3-4	4
Red PB	Red 24		100	H	L	110	NS	NS	HS	NS	4-5	4	4	3	3-4	4	4-5	3-4	3-4	3-4	4
Red P3B	Red 45		100	M	L	110	NS	NS	HS	NS	4-5	4	3-4	3-4	4	4	4-5	3-4	1	3-4	4
Red P4B	Red 245		150	M	L	110	NS	NS	HS	NS	4-5	4	3-4	3-4	4	4	4	1	1	3-4	4
Red P6B	Red 76		80	M	L	110	NS	NS	HS	NS	3-4	4	3	2-3	3	3-4	3-4	3	3-4	4	4-5
Red P8B	Red 31		80	M	L	110	NS	NS	HS	NS	4-5	3-4	3	2-3	3	3	4-5	3	2-3	3-4	4
Red P8BN	Red*		80	M	L	110	NS	NS	HS	NS	4-5	4	3-4	2-3	3	3	4-5	3-4	2-3	3-4	4
Magenta PB	Violet 13		80	M	L	110	NS	NS	HS	NS	4-5	4	3	3	3	3-4	4-5	2-3	2-3	3-4	4
Turq. Blue H5G	Blue 25		80	H	L	110	NS	NS	HS	NS	2-3	3-4	2-3	3	3	3-4	3	2-3	3	4	4
Blue P3R	Blue 49		100	M	M	110	NS	NS	HS	NS	4-5	3-4	3	3-4	4	4	4	1-2	3	4	4-5
Blue HGR	Blue 5		30	M	L	110	S	S	S	NS	4	4	3-4	3-4	3-4	4	4	1	1	4	4
Blue H5R	Blue 13		80	M	L	110	NS	NS	HS	NS	4	4	3-4	3-4	3-4	4	4	1	1	4	4
Purple P3R	Violet 1		100	M	L	110	NS	NS	HS	NS	4-5	4	3-4	3-4	4	4	5	2-3	2-3	4	4
Navy Blue RX	Blue 79		100	M	M	110	S	S	S	NS	4	4	3-4	--	3	4	4-5	2-3	3	4	4-5
Navy Blue P2R	Black 39		120	L	M	110	NS	NS	HS	NS	4	4	3-4	--	3	3-4	4-5	2-3	3	4	4-5
Red Brown H4R	Brown 9		60	M	L	110	NS	NS	HS	NS	4-5	4	3-4	3	3	3-4	4-5	3	3	4	4
Black HN	Black 8		80	L	M	110	NS	NS	HS	NS	4-5	3-4	3	3	3-4	4	4-5	1	3	4	4
Black PGR	Black*		120	L	M	110	NS	NS	HS	NS	4	4	3-4	--	3	3-4	4-5	2-3	3	4	4-5

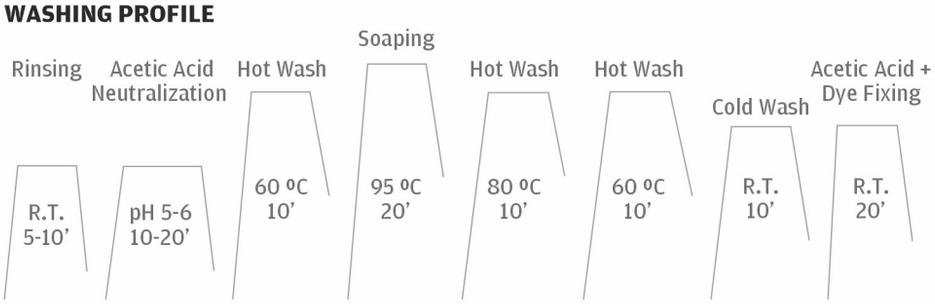
H - High | **M** - Medium | **L** - Low | **HS** - High Suitable | **S** - Suitable | **LS** - Low Suitable | **NS** - Not Suitable

H & P DYES

PRINTING PROCESS



WASHING PROFILE



PRINT PASTE RECIPE

Water	45 Lt.
SHMP	0.5 kg
Sodium Alginate (Gum)	4.0 kg
STIR THE GUM	**3 Hrs**
Urea	7.5 kg
Resist Salt	1.0 kg
Sodium Bicarbonate	4.0 kg
Add water to make	100 kg

FEATURES

- Useful in the printing of cellulosic fabrics and viscose rayon
- Due to low substantivity the hydrolyzed dyes have the least tendency to stain adjacent white portion in the print hence very useful in printing
- Print paste stability is very good in the presence of alkali due to low reactivity
- Suitable for steam process and silicate process
- Indiactiv H & P dyes meets all standard fastness requirement

HE DYES

INDIACTIV HE SERIES	CI NO.	Shade 2.0% o.w.f.	Solubility in gpl at 30 °C	Affinity	Reactivity	Fixation Temperature °C	Process Suitability				Discharge-ability	Other Fastness		Light Fastness AATCC 16E			Post Fastness Properties				
							Exhaust	Cold Pad Batch	Printing	Continuous		Washing Fastness ISO 105 C04	Rubbing ISO 105/X12 Dry / Wet	0.1%	1.0%	2.0%	Water ISO 105 E01	Chlorinated Pool Water AATCC 162:2002	Hydrogen Peroxide	Mercerizing (ISO 105 X04)	Perspiration ISO 105 E04 Acid / Alkali
Yellow HE6G	Yellow 135		50	H	L	60-80	S	NS	S	NS	Good	4-5	4-5 4	3-4	3-4	4	4-5	3	4-5	-	4-5 4-5
Yellow HE4G	Yellow 81		40	M	H	80	HS	NS	NS	NS	Poor	4	3-4 3-4	3-4	3-4	4	4	4	4-5	4	4-5 4-5
Go. Yellow HE4R	Yellow 84		70	H	H	80	HS	S	NS	NS	Poor	4	3-4 3	3	3-4	4	4	4	4-5	4	4-5 4-5
Go. Yellow HER	Yellow 84 A		80	H	H	80	HS	S	LS	NS	Poor	4	3-4 3	3	3-4	4	4	4	4-5	4	4-5 4-5
Orange HER	Orange 84		50	H	H	80	HS	LS	NS	NS	Poor	4-5	3-4 2-3	2-3	3-4	3-4	3-4	3-4	4-5	3	4 4
Orange HE2R	Orange 86		80	H	M	60-80	S	LS	NS	NS	Poor	3-4	3-4 2-3	2-3	3	3-4	4	4-5	5	3	4 4
Red HE3B	Red 120		100	H	H	80	HS	LS	NS	NS	Poor	4-5	4 3	3-4	4	4	4-5	4	4	4	4-5 4-5
Red HE7B	Red 141		120	H	H	80	HS	S	S	NS	Poor	4-5	4 3	3-4	3-4	4	4-5	4	4	4	4-5 4-5
Red HE8B	Red 152		100	H	L	80	S	NS	NS	NS	Poor	4-5	4 3	2-3	3	3	4	4-5	4	4	4-5 4-5
Blue HERD	Blue 160		100	H	H	80	HS	S	NS	NS	Poor	4-5	4 4	3-4	4	4	4-5	3	3-4	4	4-5 4-5
Blue HEGN	Blue 198		100	H	H	80	HS	S	NS	NS	Poor	4-5	4 3	3-4	4	4	4-5	1	3-4	4	4-5 4
Turquise Blue HA	Blue 71		100	M	H	80	HS	S	NS	NS	Poor	4-5	4 3	3-4	4	4	4-5	1	3-4	4	4-5 4
Green HE4BD	Green 19		80	H	H	80	HS	LS	NS	NS	Poor	4-5	3-4 3	3-4	3-4	4	4-5	4	3-4	4	4-5 4-5
Green HE4B	Green 19 A		80	H	L	60-80	S	NS	NS	NS	Poor	4	3-4 3	2-3	3	3-4	4	3-4	3-4	3-4	3-4 3-4
Navy Blue HER	Blue 171		100	H	H	80	HS	S	NS	NS	Good	4-5	3-4 3-4	3	3-4	3-4	4-5	3	4	4	4-5 4-5
Navy Blue HE2R	Blue 172		100	L	M	60-80	S	S	S	NS	Poor	4	3-4 3	3	3-4	4	4	-	4	2-3	4-5 4-5

H - High | **M** - Medium | **L** - Low | **HS** - High Suitable | **S** - Suitable | **LS** - Low Suitable | **NS** - Not Suitable

HE DYES

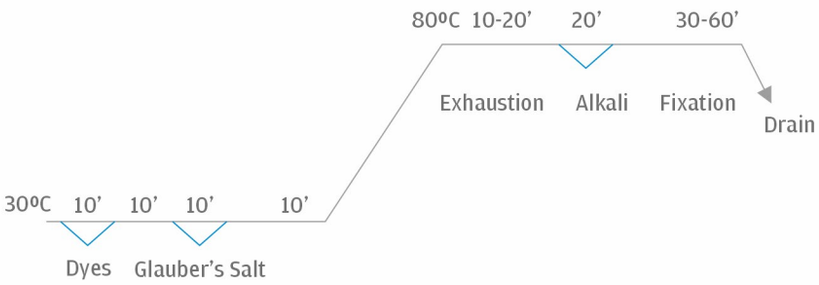
DYEING METHOD : EXHAUST DYEING

M:L Ratio - 1:10 | **SALT & ALKALI REQUIREMENT**

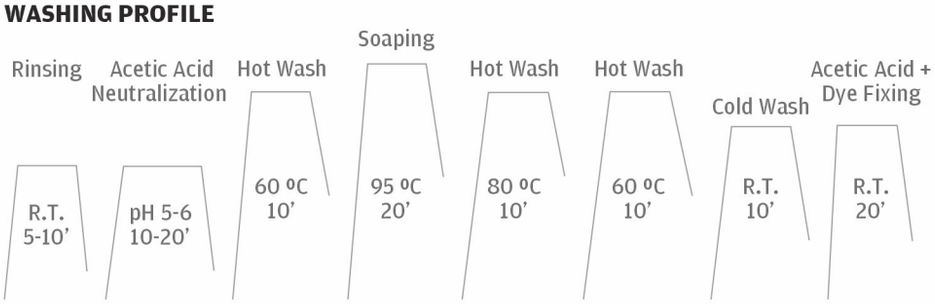
DEPTH OF SHADE	SODIUM CHLORIDE OR GLAUBER SALT GPL		SODA ASH GPL	FIXATION (MINUTES)
	UNMERC. COTTON/KNITS	VISCOSE OR MERC. COTTON		
Upto 0.10%	10	5	10	30
0.11 - 0.30%	20	10	10	30
0.31% - 0.50%	30	20	15	30
0.51% - 1.00%	40	30	15	45
1.01% - 2.00%	50	40	20	45
2.01% - 4.00%	60	50	20	60
>4.00%	70	60	20	60

* Dyeing: Exhaustion : 30-60 min | * Temp. at : 80ºC Fixation : 30-60 min

EXHAUST DYEING PROCESS DIAGRAM



WASHING PROFILE



FEATURES

- Overall good Fastness properties
- Being Cyanuric Chloride based Dyestuff, Excellent Brightness
- Good post Mercerization Fastness properties except Yellow HE4G / Orange HE2R / Red HE8B / Green HE4B / N. Blue HE2R

VS DYES

INDIACTIV VINYL SULPHONE SERIES	CI NO.	Shade 2.0% o.w.f.	Solubility in gpl at 30 °C	Affinity	Reactivity	Fixation Temperature °C	Process Suitability				Discharageability	Other Fastness		Light Fastness AATCC 16E			Post Fastness Properties			
							Exhaust	Cold Pad Batch	Printing	Continuous		Washing Fastness ISO 105 C04	Rubbing ISO 105/X12 Dry Wet	0.1%	1.0%	2.0%	Water ISO 105 E01	Chlorinated Pool Water AATCC 162:2002	Hydrogen Peroxide	Perspiration ISO 105 E04 Acid / Alkali
Yellow FG	Yellow 42		100	H	M	60	S	S	S	NS	Good	5	4-5 4	3	3-4	3-4	4-5	2-3	4-5	5 5
Go. Yellow RNL H/C	Orange 107		100	H	M	60	S	HS	S	S	Good	5	5 4	3-4	3-4	4	5	2-3	4-5	5 5
Brill. Orange 3R	Orange 16		80	M	M	60	S	LS	S	LS	Good	4-5	5 3-4	3	3-4	3-4	4-5	2-3	4-5	4-5 4-5
Brill. Orange 2R	Orange 7		120	M	M	60	S	LS	S	NS	Good	4-5	5 3-4	3	3	3	4-5	2-3	4-5	5 5
Brill. Red 5B	Red 35		100	M	M	60	LS	S	S	S	Good	3-4	3-4 3-4	3	3	3-4	4	2-3	4	4-5 4-5
Red RB	Red 198		100	M	M	60	S	S	S	S	Moderate	4-5	4-5 3-4	3.5	4	4	4-5	3	4	4-5 3-4
Red BB	Red 21		150	M	M	60	S	S	S	S	Good	4-5	5 3-4	3	3-4	3-4	4-5	2	4-5	4-5 4-5
Red BS H/C	Red 111		100	M	M	60	HS	S	LS	LS	Moderate	4-5	5 3-4	2-3	3	3	4-5	2-3	3	4-5 4-5
Brill. Violet 5R H/C	Violet 5		80	H	M	60	S	S	S	LS	Poor	4	5 3-4	3-4	4	4	4-5	3	2-3	4-5 3-4
Turq. Blue G	Blue 21		80	H	M	80	S	S	S	LS	Poor	2-3	3-4 2-3	3	3-4	3-4	3	3-4	3	4 4
Turq. Blue H2GP	Blue *		80	H	M	80	S	S	S	LS	Poor	2-3	3-4 2-3	3	3-4	3-4	3	3-4	3	4 4
Blue BB	Blue 220		100	H	M	60	S	S	S	S	Poor	4	5 3-4	4	4-5	4-5	4	3	4	3-4 4
Blue 3R	Blue 28		80	L	L	60	S	S	S	LS	Poor	3-4	5 3-4	4	4	4	4	2-3	2-3	4 3-4
Blue R SPL	Blue 19		80	H	M	60	S	S	S	LS	Poor	4	5 3-4	4	4	4-5	4-5	3	4-5	5 4-5
Dk. Blue HR	Blue 89		80	L	M	60	S	S	S	LS	Moderate	4	3-4 3	3	3	3	4	2	4	4-5 4-5
Brown GR	Brown 18		80	M	M	60	S	S	S	S	Good	3-4	4-5 3-4	3.5	3.5	4	4	2-3	3-4	4 4
Navy Blue EGB	Blue 250		100	L	M	60	S	S	S	S	Good	4-5	4-5 3	3	3-4	4	4-5	2-3	4	4-5 4-5
Navy Blue GG	Blue 203		100	H	M	60	HS	HS	S	S	Good	4-5	3-4 3	3	3-4	4	4	34	4-5	4-5 4-5
Black RL	Black 31		100	L	L	60	S	S	S	S	Poor	4	4-5 3	3.5	4	4	4-5	3	4	5 5
Black B 165%	Black 5		250	H	M	60	HS	HS	S	S	Good	4	4 3-4	2-3	3	3	4	2	4	4-5 4-5

H - High | **M** - Medium | **L** - Low | **HS** - High Suitable | **S** - Suitable | **LS** - Low Suitable | **NS** - Not Suitable

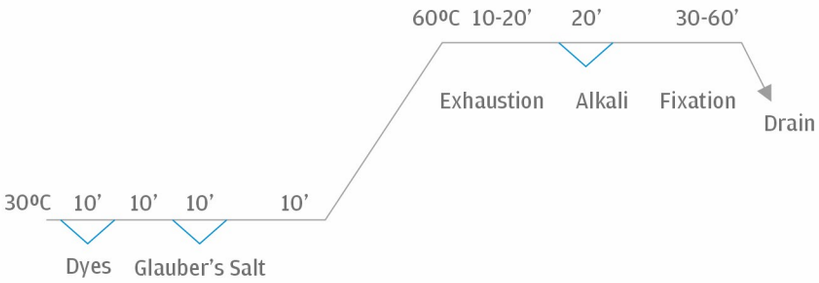
DYEING METHOD : EXHAUST DYEING

(M:L Ratio - 1:10) **SALT & ALKALI REQUIREMENT**

DEPTH OF SHADE	SODIUM CHLORIDE OR GLAUBER SALT GPL		SODA ASH GPL	SODA + CAUSTIC GPL	FIXATION (MINUTES)
	UNMERC. COTTON/KNITS	VISCOSE OR MERC. COTTON			
Upto 0.10%	10	7	10		30
0.11 - 0.30%	20	10	15	-	30
0.31% - 0.50%	30	20	20	-	30
0.51% - 1.00%	40	30	20	-	45
1.01% - 2.00%	50	40	-	10 + 0.75	45
2.01% - 4.00%	60	50	-	10 + 1.0	60
>4.00%	70	60	-	10 + 1.5	60

* Dyeing : Exhaustion : 30-60 min | * Temp. at : 60ºC Fixation : 30-60 min

EXHAUST DYEING PROCESS DIAGRAM



PAD - DRY - CHEMICAL PAD - STEAM METHOD

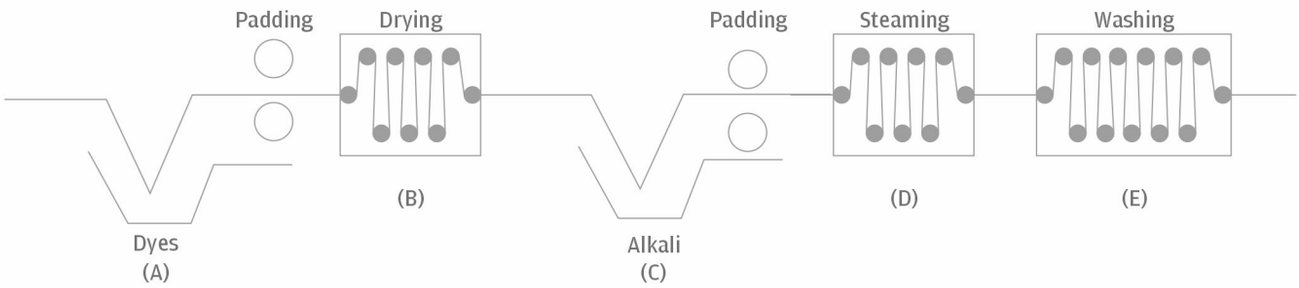
COLOR PADDING SOLUTION	Dyestuff	X	GPL
	Anti-migrating agent	1-2	GPL
	Urea	30-50	GPL
	Resist Salt	1	GPL

*Pad with 70% expression | *Dry the fabric at maximum 100 ºC temp

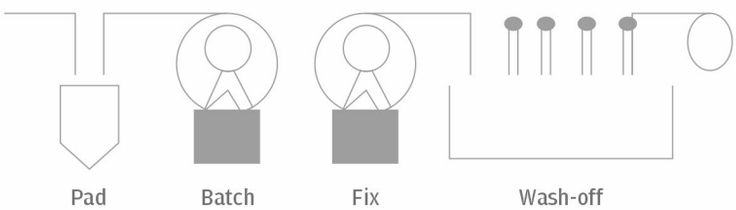
CHEMICAL PAD	Glauber Salt	150-250	GPL
	Soda Ash	15-20	GPL
	Caustic Flakes	2-4	GPL

*Pad with 90% expression | *Steam at 102 ºC for 45-60 seconds.

PAD-DRY-CHEMICAL PAD-STEAM - DYEING PROCESS DIAGRAM



COLD PAD BATCH - DYEING PROCESS DIAGRAM

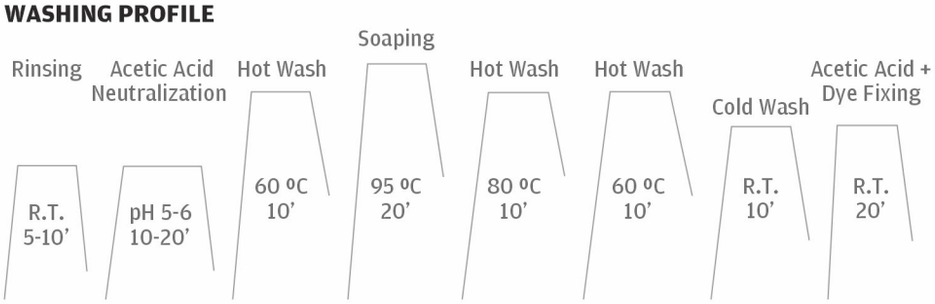


COLD PAD BATCH DYEING METHOD

DYE SOLUTION (PREPATED BELOW 25 ºC) 4 PARTS	Dyestuff	X
	Urea	50-100 GPL
	Wetting & Rewetting Agent	1-2 GPL
	Sequestering Agent	1-2 GPL
SILICATE SOLUTION 1 PARTS	Sodium Silicate Na_2O: SiO_2 : 1:2:1 (110-120º Tw)	100 GPL
	Caustic Flakes	4-8 GPL

Pad & Keep for 16 hours, well covered and under constant rotation.

WASHING PROFILE



FEATURES

- These dyes are applied by exhaust method at the optimum temperature at 50-60 °C
- Suitable for Exhaust, CPB, Pad-Dry-Steam & Pad-Dry-Chemical Pad-Steam method
- Due to low & medium affinity widely used in continuous dyeing methods
- Widely used in Discharge printing

ME DYES

INDIACTIV BI-FUNCTIONAL SERIES	CI NO.	Shade 2.0% o.w.f.	Solubility in gpl at 30 °C	Affinity	Reactivity	Fixation Temperature °C	Process Suitability				Dischargeability	Other Fastness		Light Fastness AATCC 16E			Post Fastness Properties			
							Exhaust	Cold Pad Batch	Printing	Continuous		Washing Fastness ISO 105 C04	Rubbing ISO 105/X12 Dry / Wet	0.1%	1.0%	2.0%	Water ISO 105 E01	Chlorinated Pool Water AATCC 162:2002	Hydrogen Peroxide	Perspiration ISO 105 E04 Acid / Alkali
YELLOW ME4GL H/C	Yellow 186		80	H	L	60	LS	S	S	NS	Moderate	4-5	4-5 4-5	4	4	4	4-5	3	4-5	4-5 4-5
YELLOW MERL H/C	Yellow 145		100	H	M	60	HS	HS	S	S	Moderate	4-5	4-5 3-4	4	4	4	4	4-5	4-5	4 4
ORANGE ME2RL H/C	Orange 122		80	H	M	60	S	NS	LS	LS	Moderate	4-5	4 3-4	2-3	3	3-4	4	4-5	5	4 4
RED ME3BL H/C	Red 194		100	H	M	60	S	S	S	S	Moderate	4-5	4 3-4	3-4	4	4	4	4	4-5	4-5 4-5
RED 3GXL	Red 223		100	M	M	60	HS	HS	S	HS	Good	4-5	4 3-4	3-4	4	4	4	4	4	4-5 4-5
RED ME4BL	Red 195		150	M	M	60	HS	HS	S	S	Poor	4-5	4 4	3	3-4	4	4	4	1	4-5 4-5
RED MERK	Red 222A		80	H	M	60	HS	HS	S	S	Poor	4-5	4 4	3-4	4	4-5	4	4	3-4	4-5 4-5
RED ME6BL	Red 250		80	M	M	60	S	LS	NS	S	Poor	4-5	4 4	3	3-4	4	4	4	4-5	4-5 4-5
BLUE MERF 150%	Blue 221		100	H	L	60	HS	S	S	LS	Moderate	4-5	4 4	4	4	4	4	1	2	4-5 4-5
BLUE ME2RL	Blue 248		100	M	M	60	S	NS	NS	S	Poor	3-4	4 3-4	3	3	3-4	3-4	2-3	4	4 4
BLUE ME2GL	Blue 194		100	M	M	60	HS	S	S	S	Poor	4-5	4 4	3	3	3-4	4	4	4-5	4-5 4-5
NAVY BLUE 3GXL	Blue 223		200	M	M	60	HS	S	S	S	Good	4-5	4 4	3	3-4	3-4	4	4	4-5	4-5 4-5
NAVY BLUE MEBL H/C	Blue 222		100	M	M	60	HS	S	S	S	Good	4-5	4 4	3	3	3-4	4	1	2	4-5 4-5
GREEN ME4BL	Green*		100	H	M	60	HS	S	S	NS	Moderate	4	4 3-4	4	4	4	4	3-4	1	4 4

H - High | **M** - Medium | **L** - Low | **HS** - High Suitable | **S** - Suitable | **LS** - Low Suitable | **NS** - Not Suitable

DYEING METHOD : EXHAUST DYEING

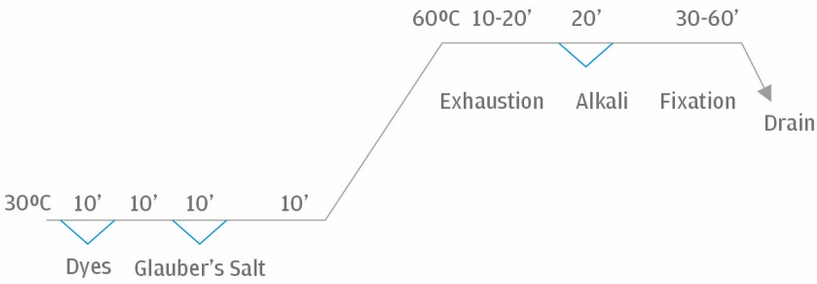
M:L Ratio - 1:10 | **SALT & ALKALI REQUIREMENT**

DEPTH OF SHADE	SODIUM CHLORIDE OR GLAUBER SALT GPL		SODA ASH GPL	SODA + CAUSTIC GPL	FIXATION (MINUTES)
	UNMERC. COTTON/KNITS	VISCOSE OR MERC. COTTON			
Upto 0.10%	10	7	10	-	30
0.11 - 0.30%	20	10	15	-	30
0.31% - 0.50%	30	20	20	-	30
0.51% - 1.00%	40	30	20	-	45
1.01% - 2.00%	50	40	-	10 + 0.75	45
2.01% - 4.00%	60	50	-	10 + 1.0	60
>4.00%	70	60	-	10 + 1.5	60

* Dyeing : Exhaustion : 30-60 min | * Temp. at : 60ºC Fixation :

ME DYES

EXHAUST DYEING PROCESS DIAGRAM



PAD - DRY - CHEMICAL PAD - STEAM METHOD

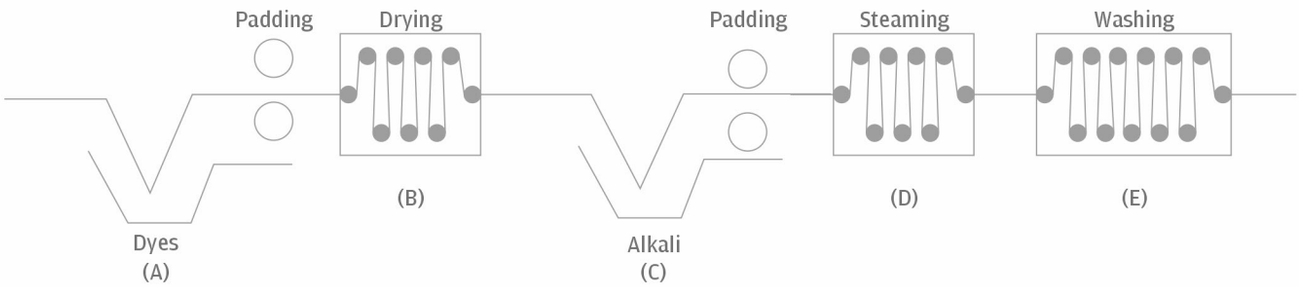
COLOR PADDING SOLUTION	Dyestuff	X	GPL
	Anti-migrating Agent	1-2	GPL
	Urea	30-50	GPL
	Resist Salt	1	GPL

*Pad with 70% expression | *Dry the fabric at maximum 100 ºC temp

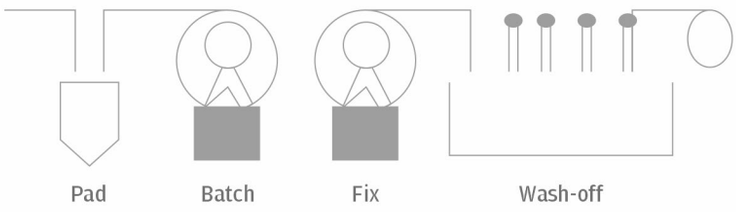
CHEMICAL PAD	Glauber Salt	150-250	GPL
	Soda Ash	15-20	GPL
	Caustic Flakes	2-4	GPL

*Pad with 90% expression | *Steam at 102 ºC for 45-60 seconds.

PAD-DRY-CHEMICAL PAD-STEAM - DYEING PROCESS DIAGRAM



COLD PAD BATCH - DYEING PROCESS DIAGRAM

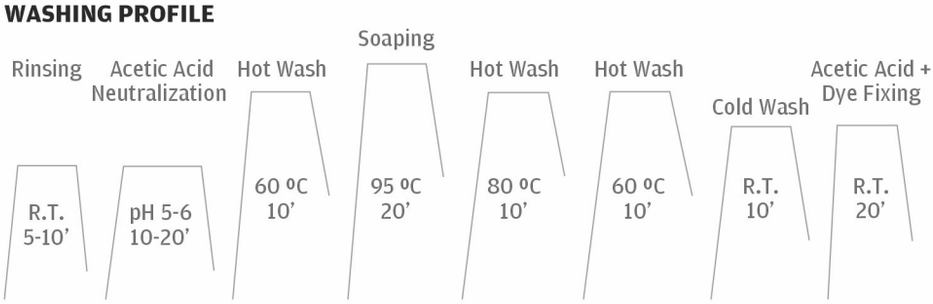


COLD PAD BATCH DYEING METHOD

DYE SOLUTION (PREPATED BELOW 25 ºC) 4 PARTS	Dyestuff	X	
	Urea	50-100	GPL
	Wetting & Rewetting Agent	1-2	GPL
	Sequestering Agent	1-2	GPL
SILICATE SOLUTION 1 PARTS	Sodium Silicate Na_2O: SiO_2 : 1:2:1 (110-120º Tw)	100	GPL
	Caustic Flakes	4-8	GPL

Pad & Keep for 16 hours, well covered and under constant rotation.

WASHING PROFILE



FEATURES

- Excellent leveling properties and Good alkali stability
- Suitable for wide range of applications i.e. in Exhaust Dyeing, Cold Pad Batch, Pad-Dry-Steam & Pad-Dry-Chemical Pad-steam
- Having very good all-round fastness properties including chlorinated pool water fastness except Blue MERF 150%, Blue ME2RL
- Being Hetro Bi-functional dyes Exhaustion & Fixation is very good

iRGB DYES

INDIACTIV iRGB SERIES	Shade 2.0% o.w.f.	Solubility in gpl at 30 °C	Affinity	Reactivity	Fixation Temperature °C	Process Suitability				Discharge-ability	Other Fastness		Light Fastness AATCC 16E			Post Fastness Properties			
						Exhaust	Cold Pad Batch	Printing	Continuous		Washing Fastness ISO 105 C04	Rubbing ISO 105/X12 Dry / Wet	0.1%	1.0%	2.0%	Water ISO 105 E01	Chlorinated Pool Water AATCC 162:2002	Hydrogen Peroxide	Perspiration ISO 105 E04 Acid / Alkali
Yellow iRGB		100	L	L	60	S	S	S	S	Moderate	4-5	4 3-4	3	3-4	4	4-5	2-3	4	5 4-5
Ultra Yellow iRGB		80	L	H	60	S	S	S	S	Moderate	4-5	4 4	3-4	4	4	4-5	3-4	4	4-5 4-5
Orange iRGB		100	H	H	60	S	S	S	S	Moderate	4	4 3-4	3	3-4	4	3-4	2-3	3-4	4 4
Ultra Orange iRGB		100	H	H	60	S	S	S	S	Moderate	4	4 3-4	3	3-4	4	3-4	2-3	3-4	4 4
Scarlet iRGB		100	L	H	60	S	S	S	S	Good	4-5	4-5 3	3	3-4	4	4-5	2-3	4	4 4-5
Red iRGB		120	M	H	60	S	S	S	S	Moderate	4	4-5 4	3	3	3-4	4	4	3-4	4-5 4-5
Deep Red iRGB		100	H	H	60	S	S	S	S	Moderate	4	4 3-4	-	3	3-4	4	-	3-4	3-4 4
Ultra Red iRGB		120	M	H	60	S	S	S	S	Moderate	4	4-5 4	3	3	3-4	4	4	3-4	4-5 4-5
Ultra Carmine iRGB		100	L	H	60	S	S	S	S	Good	4-5	4-5 3	3	3-4	4	4-5	2-3	4	4 4-5
Blue iRGB		100	L	H	60	S	S	S	S	Good	4	4 3-4	3	3-4	4	4-5	3-4	4-5	4-5 4-5
Navy Blue iRGB		150	L	H	60	S	S	S	S	Good	4-5	4-5 3	3	3-4	4	4-5	2-3	4	4 4-5
Grey iRGB		80	L	H	60	S	S	S	S	Moderate	4-5	4 4	3-4	4	4	4-5	3-4	4	4-5 4-5
Deep Black N-150		150	L	H	60	S	S	S	S	Good	4-5	4-5 3	3	3-4	4	4-5	2-3	4	4 4-5
Black iRGBNN		150	L	H	60	S	S	S	S	Good	4-5	4-5 3	3	3-4	4	4-5	2-3	4	4 4-5

RR DYES

Yellow RR		120	M	M	60	S	S	S	S	Good	4	4-5 4	4	4.5	4.5	4-5	3.5	4	4-5 4-5
Red RR		80	M	H	60	S	S	S	S	Poor	3-4	4-5 3	3.5	3.5	4	3-4	3.5	4	4 4
BLUE RR		120	H	H	60	HS	S	S	S	Good	4	4-5 4	3	3.5	4	4	4	4	4-5 4-5

H - High | **M** - Medium | **L** - Low | **HS** - High Suitable | **S** - Suitable | **LS** - Low Suitable | **NS** - Not Suitable

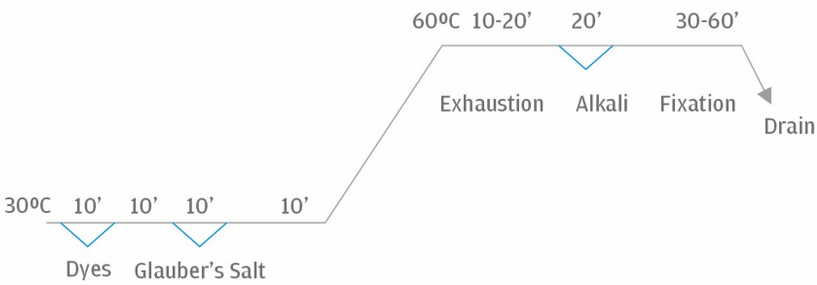
DYEING METHOD : EXHAUST DYEING

M:L Ratio - 1:10 | **SALT & ALKALI REQUIREMENT**

DEPTH OF SHADE	SODIUM CHLORIDE OR GLAUBER SALT GPL		SODA ASH GPL	SODA + CAUSTIC GPL	FIXATION (MINUTES)
	UNMERC. COTTON/KNITS	VISCOSE OR MERC. COTTON			
Upto 0.10%	10	7	10		30
0.11 - 0.30%	20	10	15		30
0.31% - 0.50%	30	20	20		30
0.51% - 1.00%	40	30	20		45
1.01% - 2.00%	50	40	-	10 + 0.50	45
2.01% - 4.00%	60	50	-	10 + 0.75	60
>4.00%	70	60	-	10 + 1.00	60

* Dyeing : Exhaustion : 30-60 min | * Temp. at : 60ºC Fixation : 30-60 min

EXHAUST DYEING PROCESS DIAGRAM



PAD - DRY - CHEMICAL PAD - STEAM METHOD

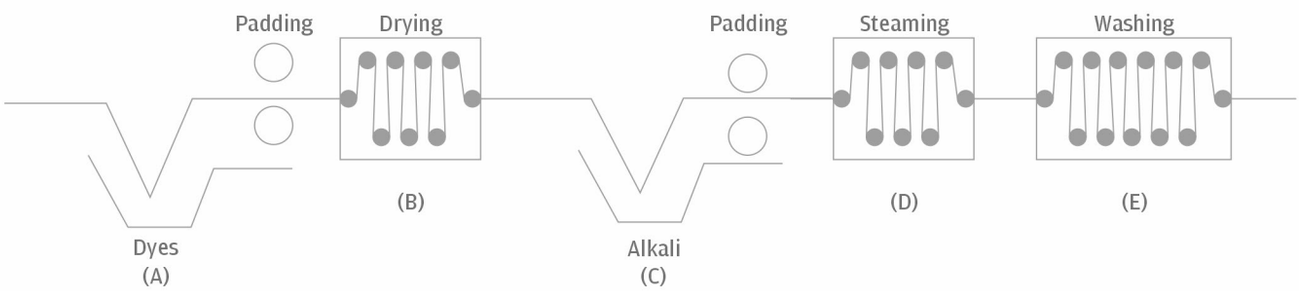
COLOR PADDING SOLUTION	Dyestuff	X	GPL
	Anti-migrating agent	1-2	GPL
	Urea	30-50	GPL
	Resist Salt	1	GPL

*Pad with 70% expression | *Dry the fabric at maximum 100 ºC temp

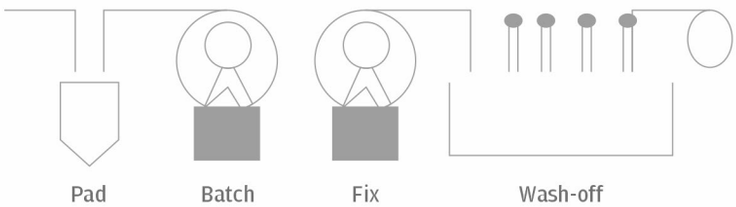
CHEMICAL PAD	Glauber Salt	150-250	GPL
	Soda Ash	15-20	GPL
	Caustic Flakes	2-4	GPL

*Pad with 90% expression | *Steam at 102 ºC for 45-60 seconds.

PAD-DRY-CHEMICAL PAD-STEAM - DYEING PROCESS DIAGRAM



COLD PAD BATCH - DYEING PROCESS DIAGRAM

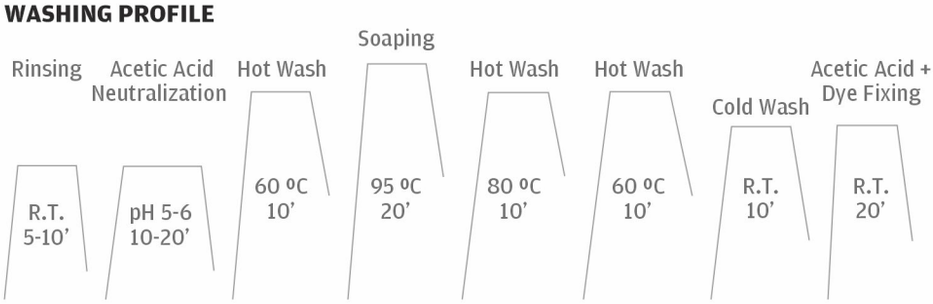


COLD PAD BATCH DYEING METHOD

DYE SOLUTION (PREPATED BELOW 25 ºC) 4 PARTS	Dyestuff	X	
	Urea	50-100	GPL
	Wetting & Rewetting Agent	1-2	GPL
	Sequestering Agent	1-2	GPL
SILICATE SOLUTION 1 PARTS	Sodium Silicate Na_2O: SiO_2 : 1:2:1 (110-120º Tw)	100	GPL
	Caustic Flakes	4-8	GPL

Pad & Keep for 16 hours, well covered and under constant rotation.

WASHING PROFILE



EGB FEATURES

- Suitable for Medium to Dark Shade
- Excellent tinctorial value & fixation leads cost effectiveness
- Suitable in Exhaust, Cold Pad Batch & Pad-Dry-Steam & Pad-Dry-Chemical Pad-Steam

RR FEATURES

- Excellent leveling properties
- Excellent overall fastness
- Good reproducibility
- Suitable for exhaust & cold pad batch method

iED DYES

INDIACTIV iED SERIES	Shade 2.0% o.w.f.	Solubility in gpl at 30OC	Affinity	Reactivity	Fixation Temperature	Process Suitability				Discharge ability	Other Fastness		Light Fastness AATCC 16E			Post Fastness Properties			
						Exhaust	Cold Pad Batch	Printing	Continuous		Washing Fastness ISO 105 C04	Rubbing ISO 105/X12 Dry / Wet	0.1%	1.0%	2.0%	Water ISO 105 E01	Chlorinated Pool Water AATCC 162:2002	Hydrogen Peroxide	Perspiration ISO 105 E04 Acid / Alkali
Lemon Yellow S3G		80	H	L	60	LS	S	S	NS	Moderate	4-5	4-5 4-5	4	4	4	4-5	3	4-5	4-5 4-5
Yellow S3R		150	H	L	60	HS	S	S	S	Poor	4	4-5 3-4	3	4	4	4	4-5	4-5	4 4
Orange W3R		150	H	M	60	HS	HS	S	S	Good	4-5	4-5 4	3	3-4	4	4-5	3-4	5	4-5 4-5
Deep Orange S4R		80	H	M	60	S	NS	LS	LS	Moderate	4-5	4 3-4	2-3	3	3-4	3-4	3-4	4	4 4
Red S2B		200	H	M	60	HS	HS	S	S	Moderate	4-5	4 4	3	3-4	4	4-5	4	4	4-5 4
Deep Red SB		200	H	M	60	HS	HS	S	S	Moderate	4	4 4	3	3-4	3-4	4	4	4	4-5 4
Cherry Red SD		100	H	M	60	HS	HS	S	S	Good	4	4-5 3-4	3	3-4	3-4	4	3	3-4	4-5 4-5
Ruby S3B		150	M	M	60	HS	HS	S	S	Poor	4-5	4 4	3	3-4	3-4	4-5	4	3	4-5 4-5
DK Blue SGL		150	H	L	60	HS	LS	S	LS	Moderate	4-5	4-5 4	3-4	4	4	4-5	4	3	4-5 4-5
Navy SGI		150	H	H	60	HS	HS	S	S	Good	4	4-5 3-4	3	3-4	3-4	4	5	4	5 5
Deep Night SR		250	H	M	60	HS	HS	S	S	Good	4	4 3-4	2-3	3	3	4	2	4	4-5 4-5
Super Black R		200	H	H	60	HS	HS	S	S	Good	4	4-5 3-4	-	3	3-4	4	3	4	4-5 4-5
Super Black G		200	H	H	60	HS	HS	S	S	Good	4	4-5 3-4	-	3	3-4	4	3	4	4-5 4-5
Black NN		200	H	H	60	HS	HS	S	S	Good	4	4-5 3-4	-	3	3-4	4	3	4	4-5 4-5
Black WF		200	H	H	60	HS	HS	S	S	Good	4	4-5 3-4	-	3	3-4	4	3	4	4-5 4-5

H - High | **M** - Medium | **L** - Low | **HS** - High Suitable | **S** - Suitable | **LS** - Low Suitable | **NS** - Not Suitable

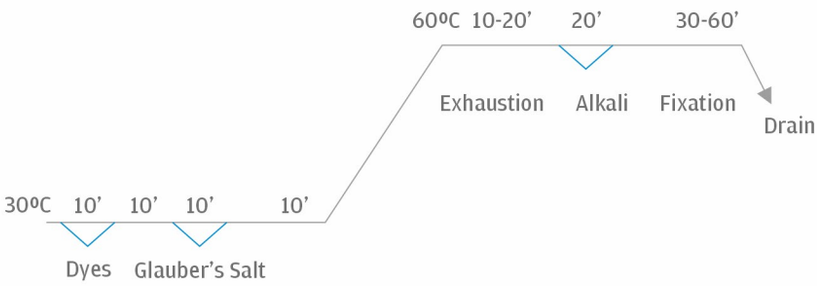
DYEING METHOD : EXHAUST DYEING

M:L Ratio - 1:10 | **SALT & ALKALI REQUIREMENT**

DEPTH OF SHADE	SODIUM CHLORIDE OR GLAUBER SALT GPL		SODA ASH GPL	SODA + CAUSTIC GPL	FIXATION (MINUTES)
	UNMERC. COTTON/KNITS	VISCOSE OR MERC. COTTON			
Upto 0.10%	10	7	10		30
0.11 - 0.30%	20	10	15		30
0.31% - 0.50%	30	20	20		30
0.51% - 1.00%	40	30	20		45
1.01% - 2.00%	50	40	-	10 + 0.50	45
2.01% - 4.00%	60	50	-	10 + 0.75	60
>4.00%	70	60	-	10 + 1.00	60

* Dyeing : Exhaustion : 30-60 min | * Temp. at : 60ºC Fixation : 30-60 min

EXHAUST DYEING PROCESS DIAGRAM



PAD - DRY - CHEMICAL PAD - STEAM METHOD

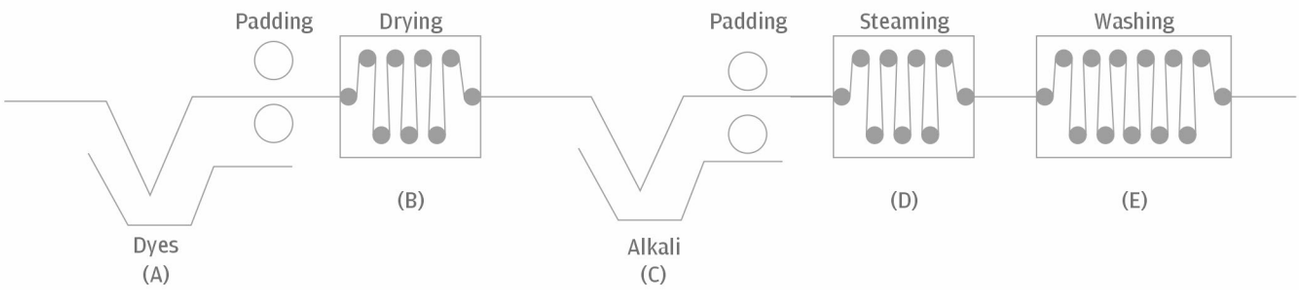
COLOR PADDING SOLUTION	Dyestuff	X	GPL
	Anti-migrating Agent	1-2	GPL
	Urea	30-50	GPL
	Resist Salt	1	GPL

*Pad with 70% expression | *Dry the fabric at maximum 100 ºC temp

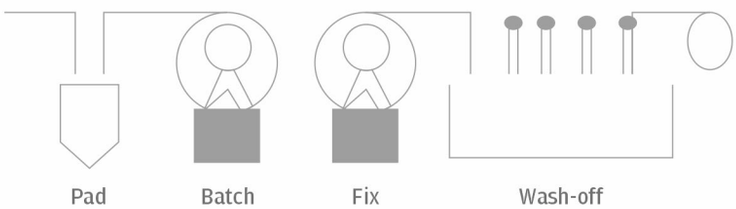
CHEMICAL PAD	Glauber Salt	150-250	GPL
	Soda Ash	15-20	GPL
	Caustic Flakes	2-4	GPL

*Pad with 90% expression | *Steam at 102 ºC for 45-60 seconds.

PAD-DRY-CHEMICAL PAD-STEAM - DYEING PROCESS DIAGRAM



COLD PAD BATCH - DYEING PROCESS DIAGRAM

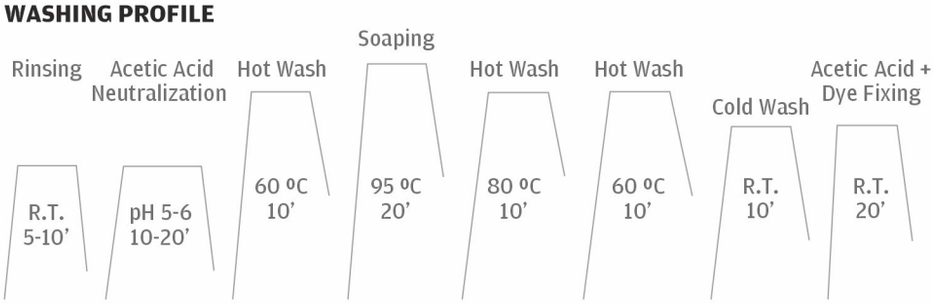


COLD PAD BATCH DYEING METHOD

DYE SOLUTION (PREPATED BELOW 25 ºC) 4 PARTS	Dyestuff	X
	Urea	50-100 GPL
	Wetting & Rewetting Agent	1-2 GPL
	Sequestering Agent	1-2 GPL
SILICATE SOLUTION 1 PARTS	Sodium Silicate Na_2O: SiO_2 : 1:2:1 (110-120º Tw)	100 GPL
	Caustic Flakes	4-8 GPL

Pad & Keep for 16 hours, well covered and under constant rotation.

WASHING PROFILE



FEATURES

- Suitable for medium to dark shades
- Excellent tinctorial value & fixation, leads to cost effectiveness
- Suitable for exhaust, Cold Pad Batch, Pad-Dry-Steam & Pad-Dry-Chemical Pad-Steam
- Cost effective

EX DYES

INDIACTIV EX SERIES	Shade 2.0% o.w.f.	Solubility in gpl at 30 °C	Affinity	Reactivity	Fixation Temperature °C	Process Suitability				Dischargeability	Other Fastness		Light Fastness AATCC 16E			Post Fastness Properties				
						Exhaust	Cold Pad Batch	Printing	Continuous		Washing Fastness ISO 105 C04	Rubbing ISO 105/X12 Dry / Wet	0.1%	1.0%	2.0%	Water ISO 105 E01	Chlorinated Pool Water AATCC 162:2002	Hydrogen Peroxide	Mercerizing ISO 105 X04	Perspiration ISO 105 E04 Acid / Alkali
Yellow EX		150	H	M	60	HS	S	LS	LS	Poor	4-5	5 4	3	3-4	4	4	3-4	4	3	4-5 4-5
Yellow EDX		150	H	M	60	HS	S	LS	LS	Poor	4-5	5 4	3	3-4	4	4	3-4	4	3	4-5 4-5
Orange EX		80	H	M	60	S	NS	LS	LS	Moderate	4-5	4 3-4	2-3	3	3-4	3-4	3-4	4	3-4	4 4
Red EX		150	H	M	60	HS	S	LS	LS	Poor	4-5	4 3-4	3	3-4	4	4	4	4	4	4-5 4-5
Red EXL3B		150	M	M	60	HS	HS	S	S	Poor	4-5	4 3-4	3-4	4	4-5	4	4	4	4	4 4-5
Red EDXL3B		150	M	M	60	HS	HS	S	S	Poor	4-5	4 3-4	3-4	4	4-5	4	4	4	4	4 4-5
Blue EX		100	H	M	60	HS	S	S	S	Poor	4-5	4 3-4	3	3-4	4	4	4	4	4	4-5 4
Navy Blue EX		150	H	L	60	HS	HS	S	S	Poor	4-5	4 3-4	2-3	3	3-4	3-4	3-4	4	3-4	4-5 4-5
Navy EBXL		200	H	L	60	HS	HS	S	S	Good	4	4 3-4	-	3	3-4	3-4	3	4	3-4	4 4
Black EX		250	H	L	60	HS	HS	S	S	Good	4	4 3-4	-	-	3	3	3	3-4	4	4-5 4-5
Black EXLW		250	H	L	60	HS	HS	S	S	Good	4	4 3-4	-	-	3-4	3	3	3-4	4	4-5 4-5

H - High | **M** - Medium | **L** - Low | **HS** - High Suitable | **S** - Suitable | **LS** - Low Suitable | **NS** - Not Suitable

DYEING METHOD : EXHAUST DYEING

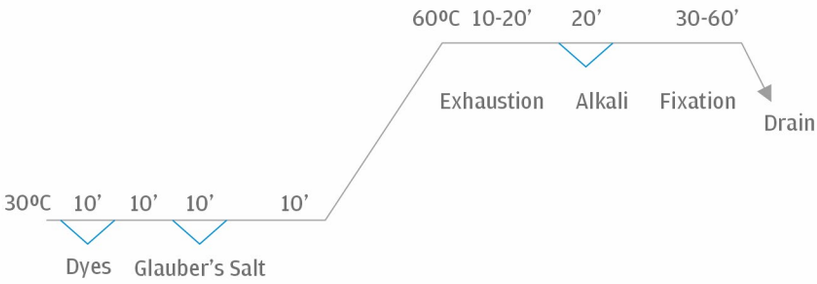
M:L Ratio - 1:10 | **SALT & ALKALI REQUIREMENT**

DEPTH OF SHADE	SODIUM CHLORIDE OR GLAUBER SALT GPL		SODA ASH GPL	SODA + CAUSTIC GPL	FIXATION (MINUTES)
	UNMERC. COTTON/KNITS	VISCOSE OR MERC. COTTON			
Upto 0.10%	10	7	10	-	30
0.11 - 0.30%	20	10	15	-	30
0.31% - 0.50%	30	20	20	-	30
0.51% - 1.00%	40	30	20	-	45
1.01% - 2.00%	50	40	-	10 + 0.50	45
2.01% - 4.00%	60	50	-	10 + 0.75	60
>4.00%	70	60	-	10 + 1.00	60

* Dyeing : Exhaustion : 30-60 min | * Temp. at : 60°C Fixation : 30-60 min

EX DYES

EXHAUST DYEING PROCESS DIAGRAM



PAD - DRY - CHEMICAL PAD - STEAM METHOD

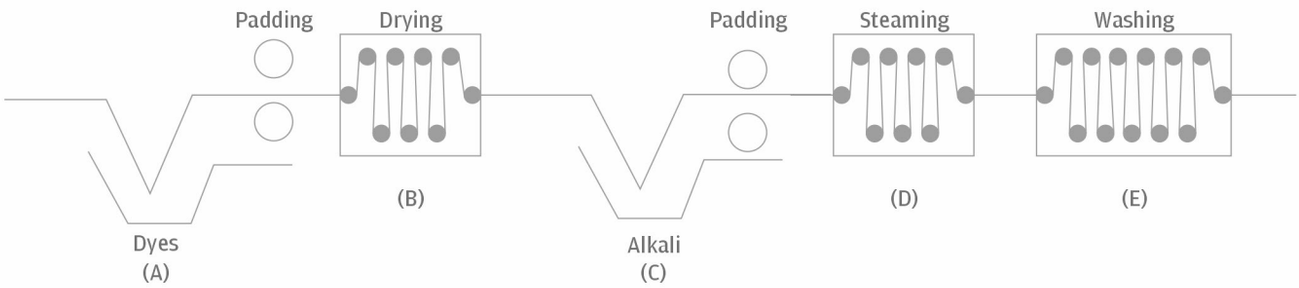
COLOR PADDING SOLUTION	Dyestuff	X	GPL
	Anti-migrating Agent	1-2	GPL
	Urea	30-50	GPL
	Resist Salt	1	GPL

*Pad with 70% expression | *Dry the fabric at maximum 100 ºC temp

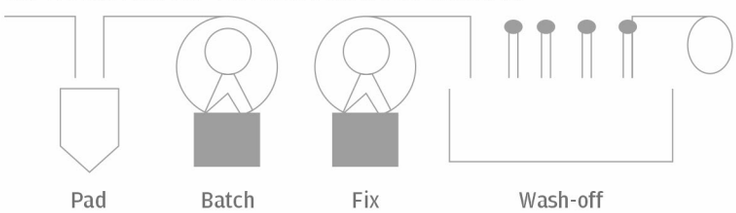
CHEMICAL PAD	Glauber Salt	150-250	GPL
	Soda Ash	15-20	GPL
	Caustic Flakes	2-4	GPL

*Pad with 90% expression | *Steam at 102 ºC for 45-60 seconds.

PAD-DRY-CHEMICAL PAD-STEAM - DYEING PROCESS DIAGRAM



COLD PAD BATCH - DYEING PROCESS DIAGRAM

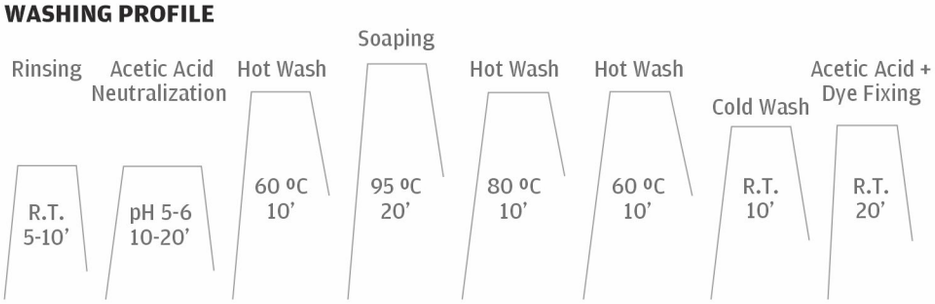


COLD PAD BATCH DYEING METHOD

DYE SOLUTION (PREPATED BELOW 25 ºC) 4 PARTS	Dyestuff	X
	Urea	50-100 GPL
	Wetting & Rewetting Agent	1-2 GPL
	Sequestering Agent	1-2 GPL
SILICATE SOLUTION 1 PARTS	Sodium Silicate Na_2O: SiO_2 : 1:2:1 (110-120º Tw)	100 GPL
	Caustic Flakes	4-8 GPL

Pad & Keep for 16 hours, well covered and under constant rotation.

WASHING PROFILE



FEATURES

- Excellent tinctorial value & fixation leads cost effectiveness
- Suitable for Medium to Dark Shade
- Suitable in Exhaust, Cold Pad Batch & Pad-Dry-Steam & Pad-Dry-Chemical Pad-Steam

EX-D DYES

INDIACTIV EX-D DYES SERIES	Shade 2.0% o.w.f.	Solubility in gpl at 30 °C	Affinity	Reactivity	Fixation Temperature °C	Process Suitability				Dischargeability	Other Fastness		Light Fastness AATCC 16E			Post Fastness Properties			
						Exhaust	Cold Pad Batch	Printing	Continuous		Washing Fastness ISO 105 C04	Rubbing ISO 105/X12 Dry / Wet	0.1%	1.0%	2.0%	Water ISO 105 E01	Chlorinated Pool Water AATCC 162:2002	Hydrogen Peroxide	Perspiration ISO 105 E04 Acid / Alkali
Yellow EX-D		150	H	M	60	HS	HS	S	S	Moderate	4-5	4-5 3-4	4	4	4-5	4	4	4	4 4
Red EX-D		150	M	M	60	HS	HS	S	S	Poor	4-5	4 4	3	3-4	4	4	4	1	4-5 4-5
Blue EX-D		100	H	L	60	HS	S	S	LS	Moderate	4-5	4 4	4	4	4	4	1	2	4-5 4-5
Navy Blue EX-D		250	H	M	60	HS	HS	S	S	Good	4	4 3-4	2-3	3	3	4	2	4	4-5 4-5

SS/SPD/SPR DYES

Yellow SS		150	H	M	60	HS	HS	S	S	Moderate	4-5	4-5 3-4	4	4	4-5	4	4	4	4 4
Yellow SSR		150	H	M	60	HS	S	LS	LS	Poor	4-5	5 4	3	3-4	4	4	3-4	4	4-5 4-5
Orange SS		150	H	M	60	HS	HS	S	S	Good	4-5	4-5 4	3	3-4	4	4-5	3-4	5	4-5 4-5
Red SS		150	M	M	60	HS	HS	S	S	Poor	4-5	4 4	3	3-4	4	4	4	1	4-5 4-5
Deep Red SS		100	H	M	60	HS	HS	S	S	Good	4	4-5 3-4	3	3-4	3-4	4	3	3-4	4-5 4-5
Dk Blue SS		150	M	M	60	HS	S	S	S	Good	4-5	4 4	3	3	3-4	4	1	2	4-5 4-5
Navy Blue SS		150	L	H	60	S	S	S	S	Good	4-5	4-5 3-4	3	3-4	4	4-5	2-3	4	4 4-5
Yellow SPD		150	H	M	60	HS	HS	S	S	Moderate	4-5	4-5 3-4	4	4	4-5	4	4	4	4 4
Red SPD		150	M	M	60	HS	HS	S	S	Poor	4-5	4 4	3	3-4	4	4	4	1	4-5 4-5
Navy SPD		150	M	M	60	HS	S	S	S	Good	4-5	4 4	3	3	3-4	4	1	2	4-5 4-5
Yellow SPR		150	H	M	60	HS	HS	S	S	Moderate	4-5	4-5	4 3-4	4	4-5	4	4	4	4 4
Red SPR		150	M	M	60	HS	HS	S	S	Poor	4-5	4	3 4	3-4	4	4	4	1	4-5 4
Blue SPR		100	H	L	60	HS	S	S	LS	Moderate	4-5	4	4 4	4	4	4	1	2	4-5 4-5

H - High | **M** - Medium | **L** - Low | **HS** - High Suitable | **S** - Suitable | **LS** - Low Suitable | **NS** - Not Suitable

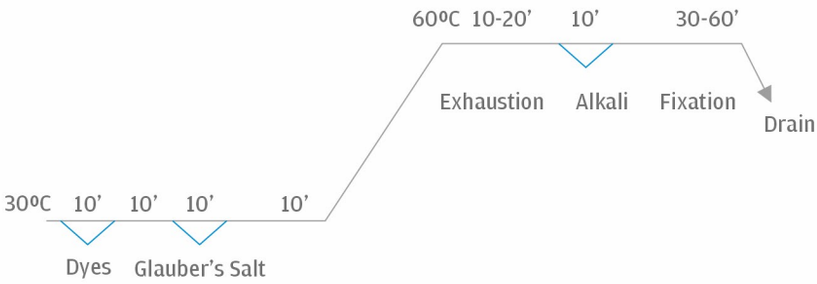
DYEING METHOD : EXHAUST DYEING

M:L Ratio - 1:10 | **SALT & ALKALI REQUIREMENT**

DEPTH OF SHADE	SODIUM CHLORIDE OR GLAUBER SALT		SODA ASH	SODA + CAUSTIC	FIXATION (MINUTES)
	UNMERC. COTTON/KNITS	VISCOSE OR MERC. COTTON			
4.00%	70	60	-	10 + 1.5	60
5.00%	70	60	-	10 + 2.5	60
>6.00%	70	60	-	15 + 1.5	60

* Dyeing : Exhaustion : 30-60 min | * Temp. at : 60ºC Fixation : 30-60 min

EXHAUST DYEING PROCESS DIAGRAM



PAD - DRY - CHEMICAL PAD - STEAM METHOD

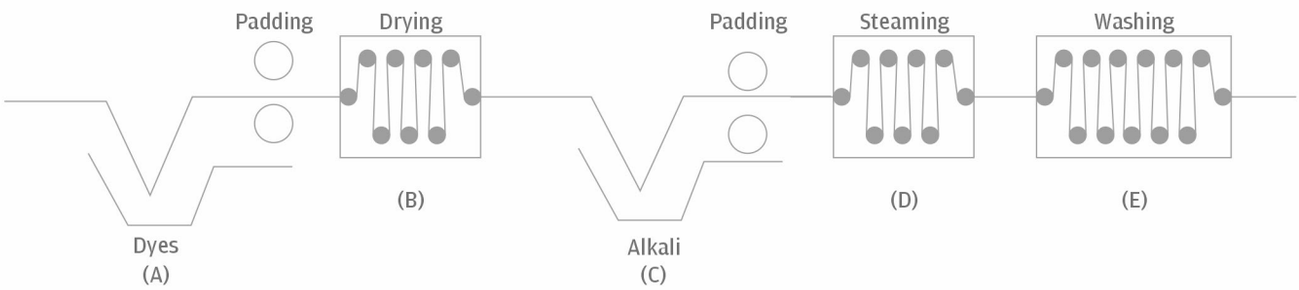
COLOR PADDING SOLUTION	Dyestuff	X	GPL
	Anti-migrating Agent	1-2	GPL
	Urea	30-50	GPL
	Resist Salt	1	GPL

*Pad with 70% expression | *Dry the fabric at maximum 100 ºC temp

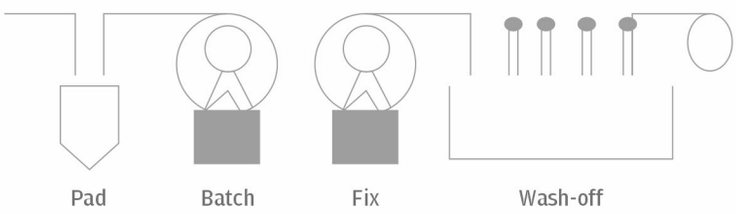
CHEMICAL PAD	Glauber Salt	150-250	GPL
	Soda Ash	15-20	GPL
	Caustic Flakes	2-4	GPL

*Pad with 90% expression | *Steam at 102 ºC for 45-60 seconds.

PAD-DRY-CHEMICAL PAD-STEAM - DYEING PROCESS DIAGRAM



COLD PAD BATCH - DYEING PROCESS DIAGRAM

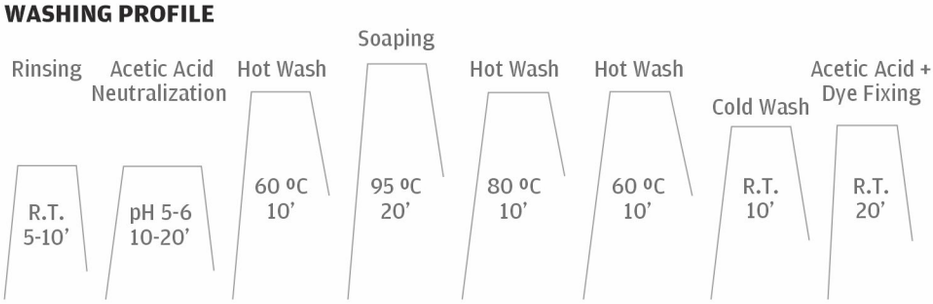


COLD PAD BATCH DYEING METHOD

DYE SOLUTION (PREPATED BELOW 25 ºC) 4 PARTS	Dyestuff	X
	Urea	50-100 GPL
	Wetting & Rewetting Agent	1-2 GPL
	Sequestering Agent	1-2 GPL
SILICATE SOLUTION 1 PARTS	Sodium Silicate Na_2O: SiO_2 : 1:2:1 (110-120º Tw)	100 GPL
	Caustic Flakes	4-8 GPL

Pad & Keep for 16 hours, well covered and under constant rotation.

WASHING PROFILE



FEATURES

- Suitable for exhaust, Cold Pad Batch, Pad-Dry-Steam & Pad-Dry-Chemical Pad-Steam
- Cost effective
- Suitable for medium to dark shades
- Excellent tinctorial value & fixation

BLACK DYES

INDIACTIV BLACK DYES SERIES	Shade 4.0% o.w.f.	Solubility in gpl at 30OC	Affinity	Reactivity	Fixation Temperature	Process Suitability				Dischargeability	Other Fastness		Light Fastness AATCC 16E			Post Fastness Properties			
						Exhaust	Cold Pad Batch	Printing	Continuous		Washing Fastness ISO 105 C04	Rubbing ISO 105/X12 Dry / Wet	0.1%	1.0%	2.0%	Water ISO 105 E01	Chlorinated Pool Water AATCC 162:2002	Hydrogen Peroxide	Perspiration ISO 105 E04 Acid / Alkali
BLACK B		200	H	M	60	S	S	S	S	Good	4	4 4	3	3-4	4	4	2	4	4 4-5
NAVY JB		200	H	M	60	S	S	S	S	Good	4	4 4	3	3-4	4	4	2	4	4 4-5
BLACK B CRUDE		200	H	M	60	S	S	S	S	Good	4	4 4	3	3-4	4	4	2	4	4 4-5
BLACK B H/C		200	H	M	60	S	S	S	S	Good	4	4 4	3	3-4	4	4	2	4	4 4-5
BLACK WNN		200	H	M	60	HS	HS	S	S	Good	4	4 3-4	-	-	3	3	2	3-4	4 4-5
BLACK DN		200	H	M	60	HS	HS	S	S	Good	4	4 3-4	-	-	3-4	3	2	3-4	4 4-5
BLACK TNN		200	H	M	60	HS	HS	S	S	Good	4	4 3-4	-	-	3-4	3	2	3-4	4 4-5
SUPER BLACK R		200	H	M	60	S	S	S	S	Good	4	4 4	3	3-4	4	4	2	4	4 4-5
SUPER BLACK G		200	H	M	60	S	S	S	S	Good	4	4 4	3	3-4	4	4	2	4	4 4-5
DEEP BLACK NG		200	H	M	60	S	S	S	S	Good	4	4 4	3	3-4	4	4	2	4	4 4-5
BLACK WM		200	H	M	60	S	S	S	S	Good	4	4 4	3	3-4	4	4	2	4	4 4-5
BLACK GDNN		200	H	M	60	S	S	S	S	Good	4	4 4	3	3-4	4	4	2	4	4 4-5
BLACK CX		200	H	M	60	S	S	S	S	Good	4	4 4	3	3-4	4	4	2	4	4 4-5

H - High | **M** - Medium | **L** - Low | **HS** - High Suitable | **S** - Suitable | **LS** - Low Suitable | **NS** - Not Suitable

DYEING METHOD : EXHAUST DYEING

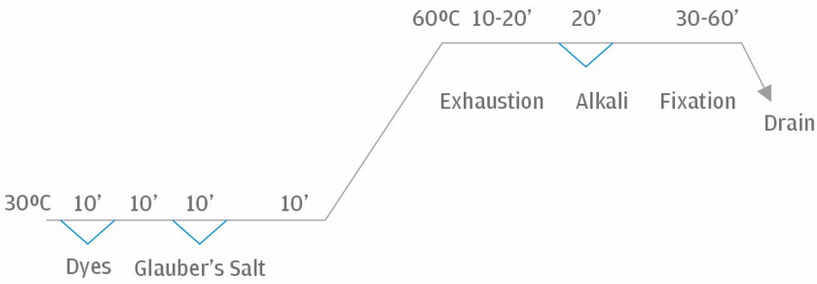
M:L Ratio - 1:10 | **SALT & ALKALI REQUIREMENT**

DEPTH OF SHADE	SODIUM CHLORIDE OR GLAUBER SALT GPL		SODA ASH GPL	SODA + CAUSTIC GPL	FIXATION (MINUTES)
	UNMERC. COTTON/KNITS	VISCOSE OR MERC. COTTON			
4.00%	70	60	-	10 + 1.5	60
5.00%	70	60	-	10 + 2.0	60
>6.00%	80	70	-	15 + 2.5	60

* Dyeing : Exhaustion : 30-60 min | * Temp. at : 60ºC Fixation : 30-60 min

BLACK DYES

EXHAUST DYEING PROCESS DIAGRAM



PAD - DRY - CHEMICAL PAD - STEAM METHOD

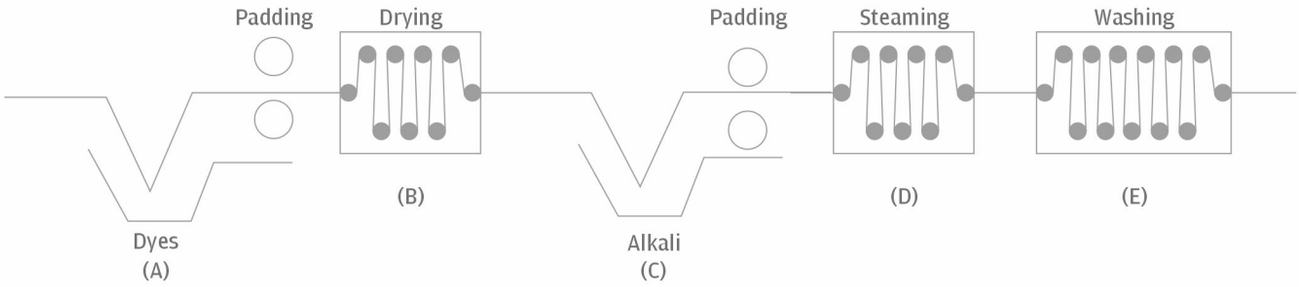
COLOR PADDING SOLUTION	Dyestuff	X	GPL
	Anti-migrating Agent	1-2	GPL
	Urea	30-50	GPL
	Resist Salt	1	GPL

*Pad with 70% expression | *Dry the fabric at maximum 100 ºC temp

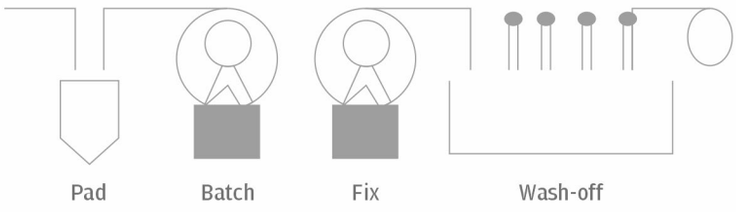
CHEMICAL PAD	Glauber Salt	150-250	GPL
	Soda Ash	15-20	GPL
	Caustic Flakes	2-4	GPL

*Pad with 90% expression | *Steam at 102 ºC for 45-60 seconds.

PAD-DRY-CHEMICAL PAD-STEAM - DYEING PROCESS DIAGRAM



COLD PAD BATCH - DYEING PROCESS DIAGRAM

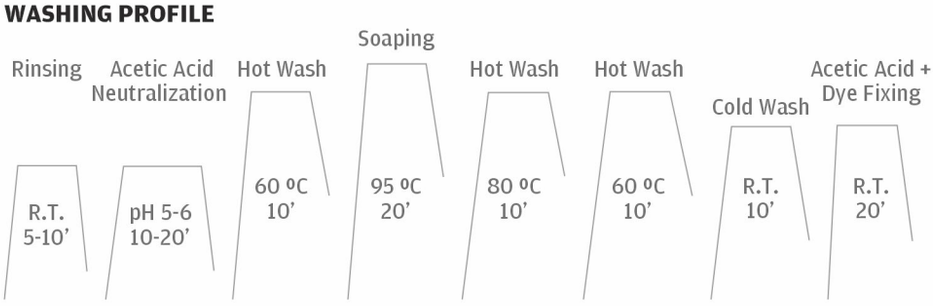


COLD PAD BATCH DYEING METHOD

DYE SOLUTION (PREPATED BELOW 25 ºC) 4 PARTS	Dyestuff	X	
	Urea	50-100	GPL
	Wetting & Rewetting Agent	1-2	GPL
	Sequestering Agent	1-2	GPL
SILICATE SOLUTION 1 PARTS	Sodium Silicate Na_2O: SiO_2 : 1:2:1 (110-120º Tw)	100	GPL
	Caustic Flakes	4-8	GPL

Pad & Keep for 16 hours, well covered and under constant rotation.

WASHING PROFILE



FEATURES

- Suitable for exhaust, Cold Pad Batch, Pad-dry-steam, Pad-dry-chemical Pad-steam Dyeing & Printing
- Excellent fastness properties
- Good Dischargeable properties













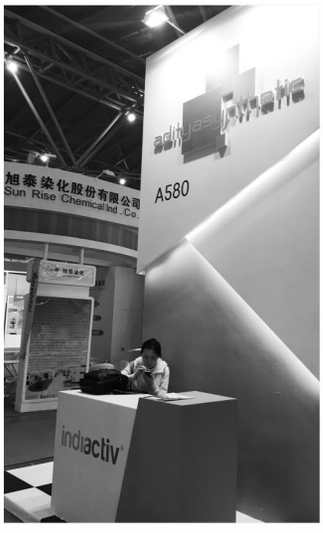
















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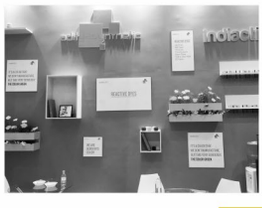

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DYES MFG. COMPANY

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