



ARA COLOURCHEM
INDUSTRIES

REACTIVE DYES
ARAFIX® & ARAZOL®

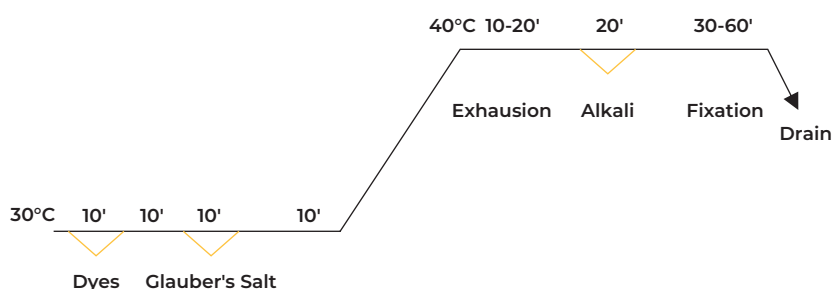
DYEING METHOD: EXHAUST DYEING

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

DEPTH OF SHADE	SODIUM CHLORIDE OR GLAUBER SALT		SODA ASH GPL	FIXATION (MINUTES)
	UNMERC. COTTON/KNITS	VISCOSE OR MERC. COTTON		
Upto 0.10%	10	7	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 : 40°C Fixation : 30-60 min

EXHAUST DYEING PROCESS DIAGRAM

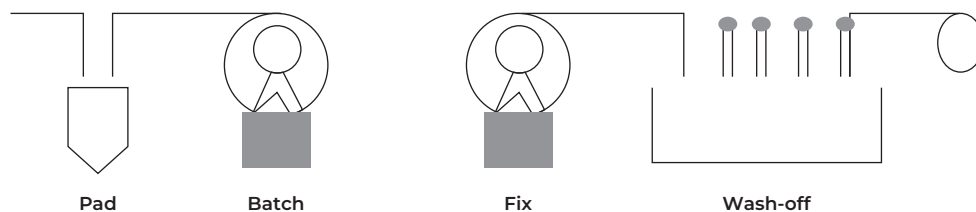


COLD PAD BATCH DYEING METHOD

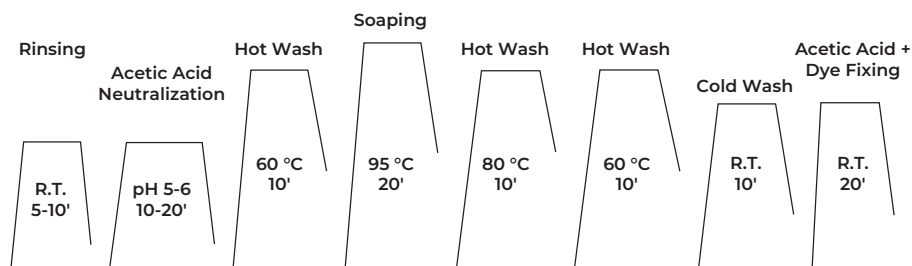
COLOR PADDING SOLUTION	Dye (X gpl) Urea (50 gpl)	800 ml
	Soda Ash (10%)	200 ml
	Total	1000 ml

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

COLD PAD BATCH - DYEING PROCESS DIAGRAM



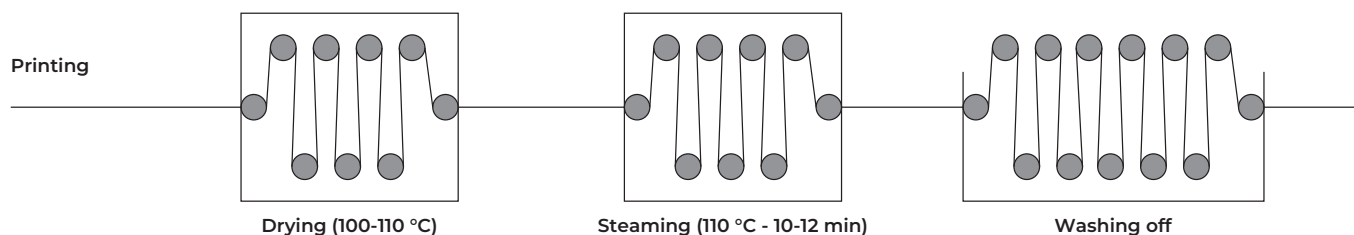
WASHING PROFILE



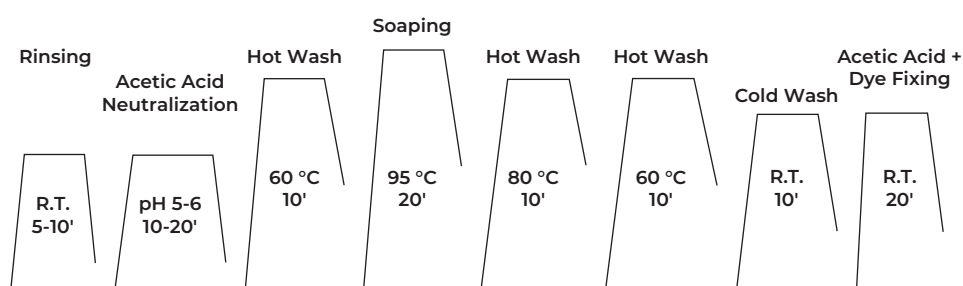
FEATURES

- Applicable to cellulosic fibres at Room Temperature
- Suitable for exhaust dyeing
- Applicable in print application by silicate method

PRINTING PROCESS



WASHING PROFILE



PRINT PASTE RECIPE

Water	45 Lt.
SHMP	0.5 kg
Sodium Alginate (Gum)	4.0 kg
STIRR 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
- Equinative H & P dyes meets all standard fastness requirement

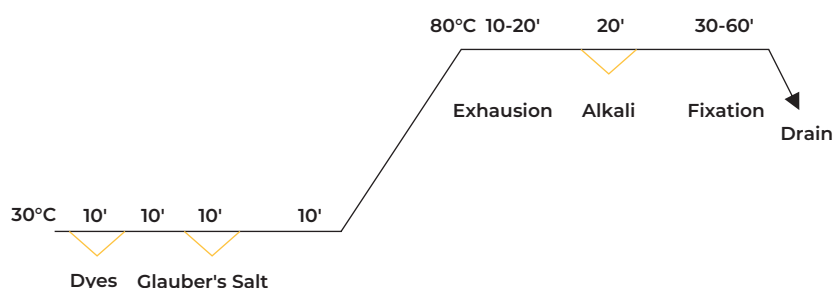
DYEING METHOD: EXHAUST DYEING

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

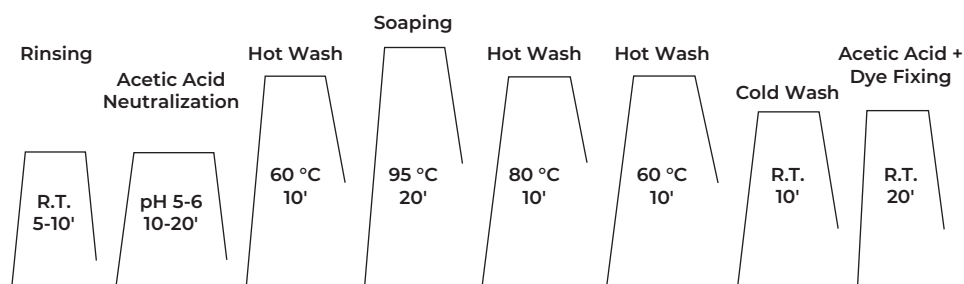
DEPTH OF SHADE	SODIUM CHLORIDE OR GLAUBER SALT GPL		SODA ASH GPL	FIXATION (MINUTES)
	UNMERC. COTTON/KNITS	VISCOSE OR MERC. COTTON		
Upto 0.10%	10	5	10	30
0.11 - 0.30%	20	10	10	30
0.31% - 0.50%	30	20	15	30
0.51% - 1.00%	40	30	15	45
1.01% - 2.00%	50	40	20	45
2.01% - 4.00%	60	50	20	60
>4.00%	70	60	20	60

* Dyeing: Exhaustion : 30-60 min | * Temp. at : 80°C 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

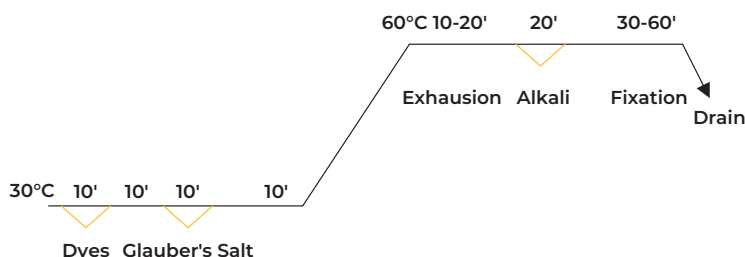
DYEING METHOD: EXHAUST DYEING

(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 : 60°C Fixation : 30-60 min

EXHAUST DYEING PROCESS DIAGRAM



PAD - DRY - CHEMICAL PAD STEAM METHOD

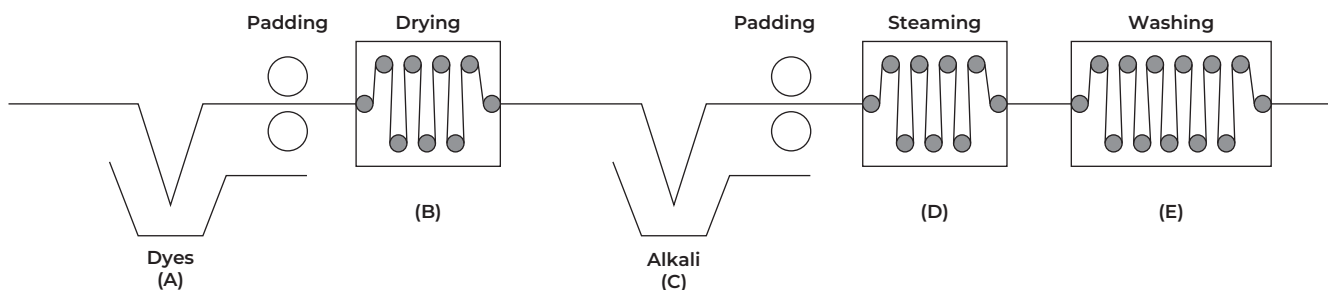
COLOR PADDING SOLUTION	Dyestuff	X	GPL
	Anti-migrating agent	1-2	GPL
	Urea	30-50	GPL
	Resist Salt	1	GPL

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

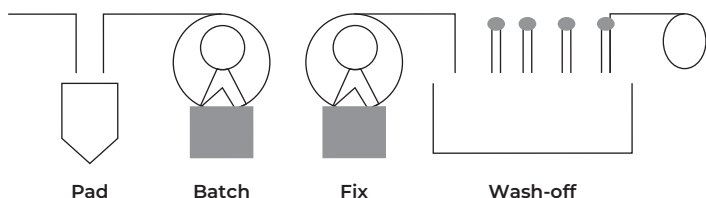
CHEMICAL PAD	Glauber Salt	150-250	GPL
	Soda Ash	15-20	GPL
	Caustic Flakes	2-4	GPL

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

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



COLD PAD BATCH - DYEING PROCESS DIAGRAM

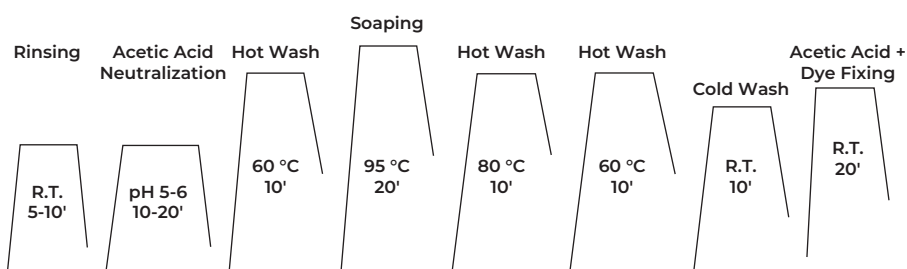


COLD PAD BATCH DYEING METHOD

DYE SOLUTION (PREPARED BELOW 25 °C) 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 ₂ O: SiO ₂ : 1:2:1 (110-120° 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

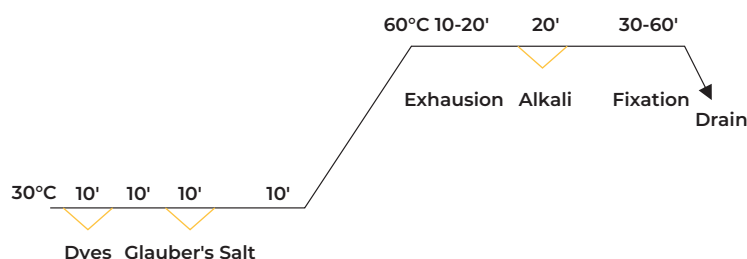
DYEING METHOD: EXHAUST DYEING

(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	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 : 60°C Fixation :

EXHAUST DYEING PROCESS DIAGRAM



PAD - DRY - CHEMICAL PAD STEAM METHOD

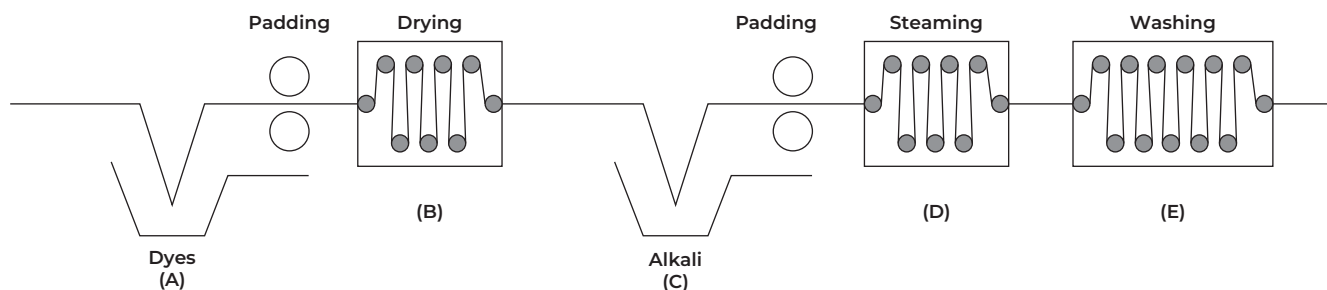
COLOR PADDING SOLUTION	Dyestuff	X	GPL
	Anti-migrating agent	1-2	GPL
	Urea	30-50	GPL
	Resist Salt	1	GPL

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

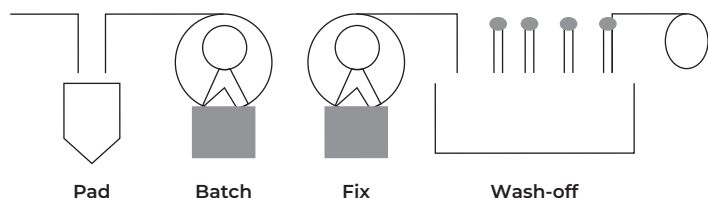
CHEMICAL PAD	Glauber Salt	150-250	GPL
	Soda Ash	15-20	GPL
	Caustic Flakes	2-4	GPL

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

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



COLD PAD BATCH - DYEING PROCESS DIAGRAM

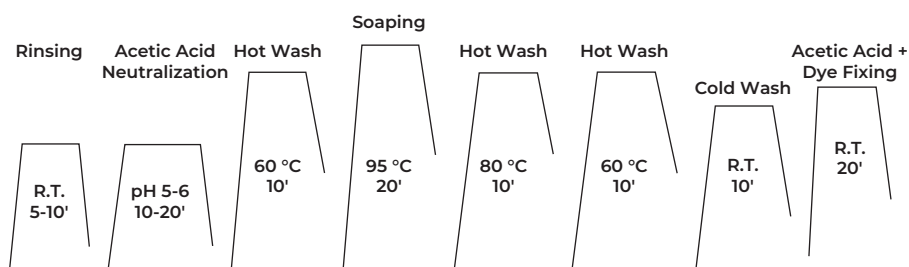


COLD PAD BATCH DYEING METHOD

DYE SOLUTION (PREPARED BELOW 25 °C) 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 ₂ O: SiO ₂ : 1:2:1 (110-120° 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

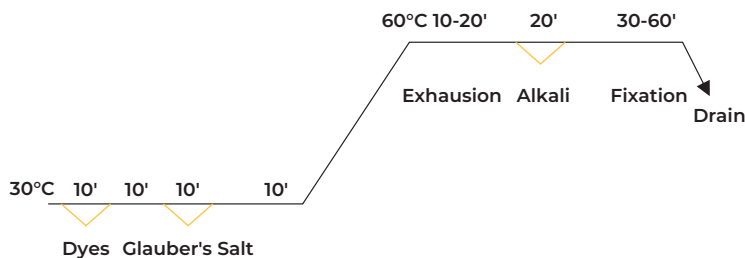
DYEING METHOD: EXHAUST DYEING

(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

EXHAUST DYEING PROCESS DIAGRAM



PAD - DRY - CHEMICAL PAD STEAM METHOD

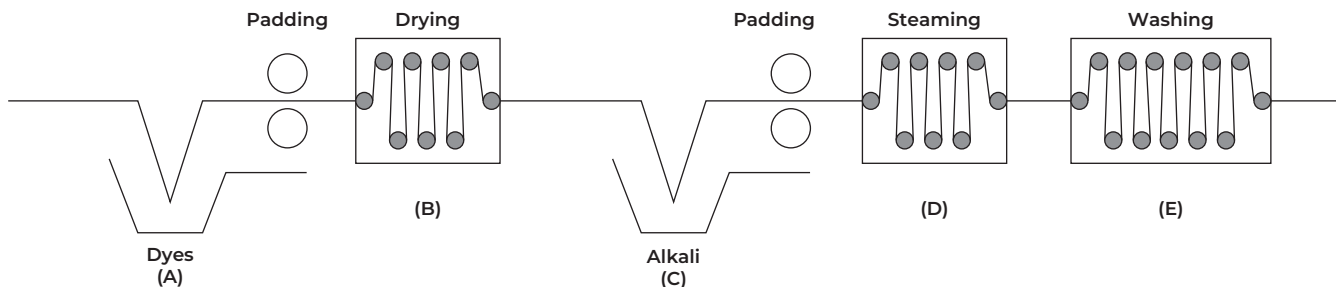
COLOR PADDING SOLUTION	Dyestuff	X	GPL
	Anti-migrating agent	1-2	GPL
	Urea	30-50	GPL
	Resist Salt	1	GPL

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

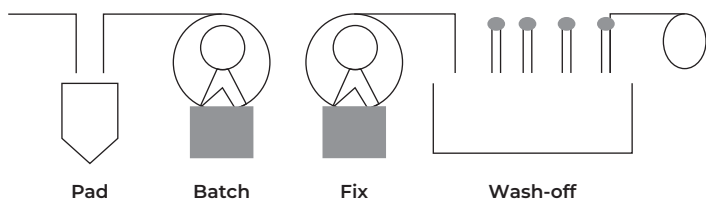
CHEMICAL PAD	Glauber Salt	150-250	GPL
	Soda Ash	15-20	GPL
	Caustic Flakes	2-4	GPL

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

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



COLD PAD BATCH - DYEING PROCESS DIAGRAM

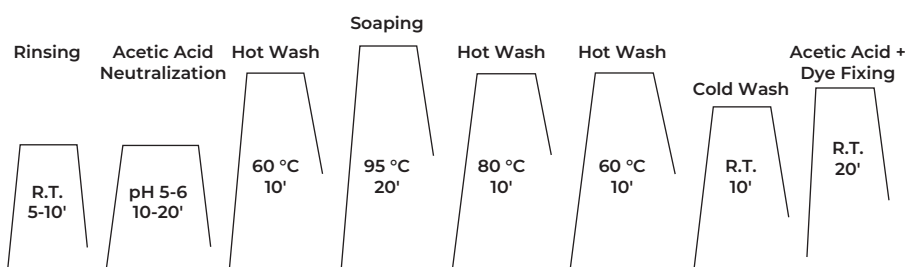


COLD PAD BATCH DYEING METHOD

DYE SOLUTION (PREPARED BELOW 25 °C) 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 ₂ O : SiO ₂ : 1:2:1 (110-120° 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

BLACK DYES



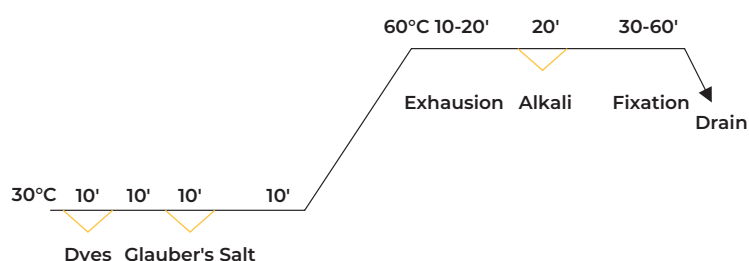
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(M:L Ratio - 1:10) SALT & ALKALI REQUIREMENT

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 : 60°C Fixation : 30-60 min

EXHAUST DYEING PROCESS DIAGRAM



PAD - DRY - CHEMICAL PAD STEAM METHOD

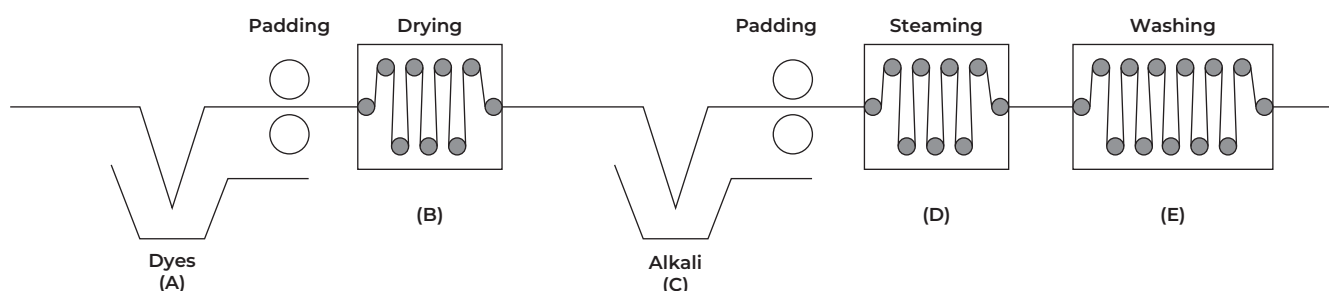
COLOR PADDING SOLUTION	Dyestuff	X	GPL
	Anti-migrating agent	1-2	GPL
	Urea	30-50	GPL
	Resist Salt	1	GPL

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

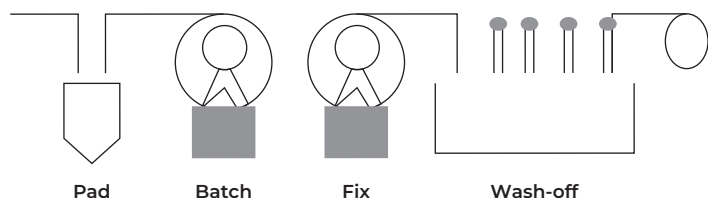
CHEMICAL PAD	Glauber Salt	150-250	GPL
	Soda Ash	15-20	GPL
	Caustic Flakes	2-4	GPL

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

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



COLD PAD BATCH - DYEING PROCESS DIAGRAM

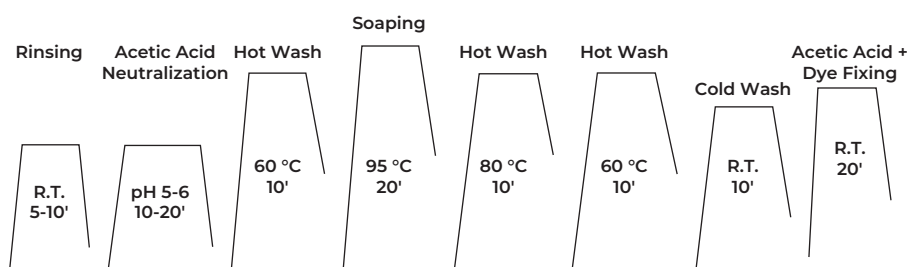


COLD PAD BATCH DYEING METHOD

DYE SOLUTION (PREPARED BELOW 25 °C) 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 ₂ O: SiO ₂ : 1:2:1 (110-120° 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

ARA COLOURCHEM INDUSTRIES

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