JAKAZOL® ME

JAY CHEMICAL INDUSTRIES PRIVATE LIMITED

JAY CHEMICAL INDUSTRIES PRIVATE LIMITED is an Indian company with a Global outlook and today one of the largest Reactive Dyestuff companies in the world. Its truly a fifty year legacy. What started as a dyes and dye intermediate manufacturing company, now has diversified interests in Textile Auxiliaries, Digital Textile Printing Inks, Construction Chemicals and the most recent Pharmaceutical sales.

In line with our vision, 1700 employees are working with dedication to serve customers in most of the textile centers around the world.

With emphasis on a sustainable approach towards the business, be it production processes, product offerings & customer service, employee health & safety, suppliers & service providers and social responsibility towards villages around the factory, all are considered an integral part of the JCIPL Ecosystem. All business decisions are taken considering the integrity and well being of all associates of the company.

OUR STRENGTH

Legacy & History
Clear long term market vision
Ethics & good practices, therefore a strong reputation
Very significant manufacturing capacities
Highly quality consciousness
Authenticity in research and development
New product development to meet changing market requirements
Reliability in terms of deliveries, logistics and packaging
Environmentally conscious & committed

Jakazol ME Features

- Wide range of products
- Good build-up behaviour for dark shades
- Moderately good reproducibility for good RFT levels
- Good wash-off properties for good fastness levels

Dye Selection

Pale Shades	Jakofix Golden Yellow MERL/ Jakofix Red ME4BL Jakofix Brilliant Blue JRF
Medium To Heavy Shades	Jakofix Golden Yellow MERL/ Jakofix Red ME4BL Jakofix Navy Blue MEBF
Support Dyes	Jakofix Yellow ME4GL/ Jakofix Orange ME2RL Jakofix Red MEGF/ Jakofix Red ME3BL Jakofix Red ME6BL/ Jakofix Navy Blue ME2GL Jakofix Brilliant Blue ME2RL

Process Offers

- Warm Exhaust

Abbreviations

BI - Bluer | DI - Duller | S* - Suitable for pale shades | SD - Standard depth | NS - Not Suitable | R - Redder | Y - Yellower

A - White Discharge | B - Moderately Dischargeable | C - Non Dischargeable

PDPS - Pad Dry Pad Steam | PDS - Pad Dry Steam | PS - Pad Steam

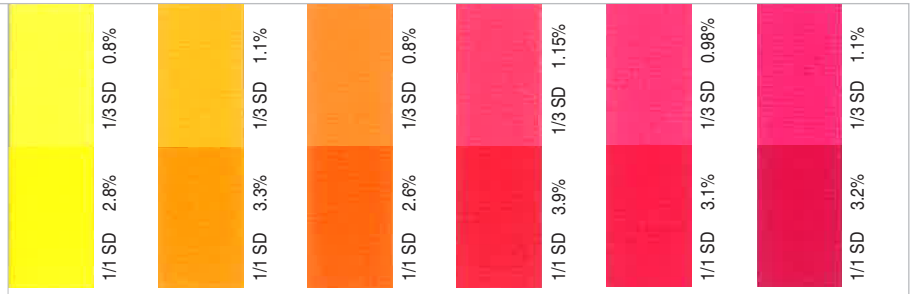
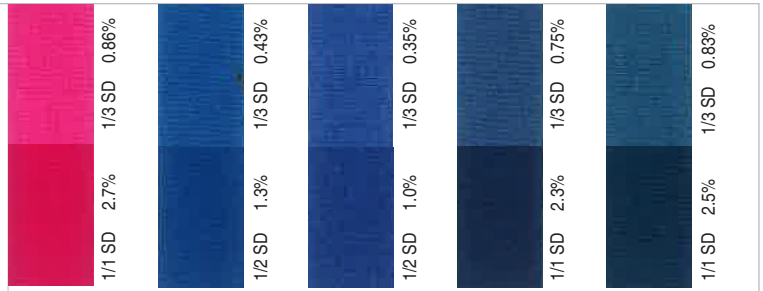
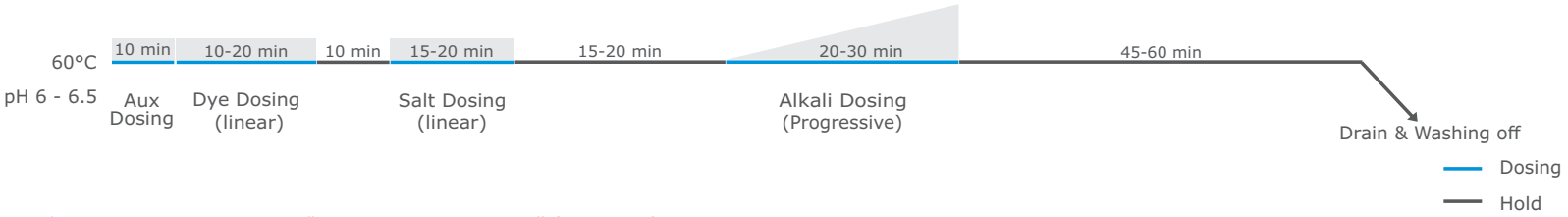
		ILLUSTRATION						
		JAKAZOL ME DYES	JAKOFIX YELLOW ME4GL	JAKOFIX GOLDEN YELLOW MERL	JAKOFIX ORANGE ME2RL	JAKOFIX RED MEGF	JAKOFIX RED ME3BL	JAKOFIX RED ME4BL
		% FASTNESS DEPTH	2.8	3.3	2.6	3.9	3.1	3.2
Processes		WARM EXHAUST	S	S	S	S	S	S
		COLD PAD BATCH DYEING	NS	S	NS	S	S	S
		PAD DRY CHEMICAL PAD STEAM	NS	NS	NS	NS	NS	NS
		PAD DRY STEAM/ PAD STEAM	NS	NS	NS	NS	NS	NS
		PAD DRY THERMOFIX	NS	S	NS	NS	NS	S
		DISCHARGEABILITY	A	C	C	A	C	C
Light Fastness	20AFU	AATCC 16.3 (1/1 SD)	4	4.5	3.5	3.5	4	4
		AATCC 16.3 (1/2 SD)	3.5	4.5	3	3.5	3.5	3.5
		AATCC 16.3 (1/3 SD)	3.5	4.5	3	3.5	3.5	3.5
		AATCC 16.3 (1/6 SD)	3	4	2.5	3.5	3.5	3
	Grade 6	ISO 105 B02 (1/1 SD)	5-6	6	4	4-5	4-5	4-5
		ISO 105 B02 (1/2 SD)	5	5-6	3-4	4	4	4
		ISO 105 B02 (1/3 SD)	4-5	5-6	3-4	4	4	4
		ISO 105 B02 (1/6 SD)	4	5	3	3-4	3-4	3-4
Solubility	gms/lit	WATER (30°C)	200	200	20	200	80	200
		IN PRESENCE OF SALT 90 g/l (50°C)	150	200	<5	<5	<5	100
Washing	ISO 105 C06/C2S	SHADE CHANGE	4R	4-5	4-5	4-5	4-5Y	4-5
		STAIN (COTTON)	4-5	3-4	3-4	4	4-5	4-5
		STAIN (NYLON)	4-5	4-5	4-5	4-5	4-5	4-5
Perspiration M&S C7	Acidic	SHADE CHANGE	4R	4-5	4-5	4-5	4-5BI	4-5
		STAIN (COTTON)	4-5	4-5	4-5	4-5	4-5	4
		STAIN (NYLON)	4-5	4-5	4-5	4-5	4-5	4-5
	Alkaline	SHADE CHANGE	4-5	4-5	4-5	4-5BI	4-5BI	4-5
		STAIN (COTTON)	4-5	4-5	4-5	4	4-5	4
		STAIN (NYLON)	4-5	4-5	4-5	4-5	4-5	4-5
		CHLORINATED WATER (JIS L 0884 -10 MG)	4R	4R	4-5	4-5BI	4Bi	4-5Br
		DRY RUBBING (M&S C8)	4-5	4-5	4-5	4-5	4-5	4-5
		WET RUBBING (M&S C8)	3-4	3-4	3-4	3-4	3	3-4
		PERBORATE WET FADE (M&S C9A)	4-5	4-5	4-5	4	4-5	4-5
		DOMESTIC & COMMERCIAL LAUNDERING (M & S C10A)	4R	4R	4DI	4-5BI	4-5	4

ILLUSTRATION								
	JAKAZOL ME DYES		JAKOFIX RED ME6BL	JAKOFIX BRILLIANT BLUE JRF	JAKOFIX BRILLIANT BLUE ME2RL	JAKOFIX NAVY BLUE ME2GL	JAKOFIX NAVY BLUE MEBF
		% FASTNESS DEPTH	2.7	2.0	2.6	3.46	3.15
Processes		WARM EXHAUST	S	S	S	S	S
		COLD PAD BATCH DYEING	NS	NS	NS	NS	NS
		PAD DRY CHEMICAL PAD STEAM	NS	NS	NS	NS	NS
		PAD DRY STEAM/ PAD STEAM	NS	NS	NS	NS	NS
		PAD DRY THERMOFIX	NS	NS	NS	NS	S
		DISCHARGEABILITY	C	B	C	C	B
Light Fastness	20AFU	AATCC 16.3 (1/1 SD)	3.5	-	-	3	3.5
		AATCC 16.3 (1/2 SD)	3.5	4	2.5	3	3
		AATCC 16.3 (1/3 SD)	3.5	4	2	3	3
		AATCC 16.3 (1/6 SD)	3	4	2	3	3
	Grade 6	ISO 105 B02 (1/1 SD)	4-5	-	-	3-4	4
		ISO 105 B02 (1/2 SD)	4	6	2-3	3	3-4
		ISO 105 B02 (1/3 SD)	4	5-6	2-3	3	3-4
		ISO 105 B02 (1/6 SD)	3	4-5	2	2-3	3
Solubility	gms/lit	WATER (30°C)	60	60	200	80	200
		IN PRESENCE OF SALT 90 g/l (50°C)	<5	<5	150	<5	120
Washing	ISO 105 C06/C2S	SHADE CHANGE	4-5	4-5	4-5	4-5	4-5
		STAIN (COTTON)	4	4	4-5	4	4
		STAIN (NYLON)	4-5	4-5	4-5	4-5	4-5
Perspiration M&S C7	Acidic	SHADE CHANGE	4-5Bl	4-5G	4G	4-5	4-5
		STAIN (COTTON)	4-5	4-5	4-5	4	4
		STAIN (NYLON)	4-5	4-5	4-5	4-5	4-5
	Alkaline	SHADE CHANGE	4-5Bl	4G	4G	4-5	4-5
		STAIN (COTTON)	4-5	4-5	4-5	4	4
		STAIN (NYLON)	4-5	4-5	4-5	4-5	4-5
		CHLORINATED WATER (JIS L 0884 -10 MG)	4-5Br	4-5	3	4	3-4
		DRY RUBBING (M&S C8)	4-5	4-5	4-5	4	4-5
		WET RUBBING (M&S C8)	3-4	3-4	3-4	3	3
		PERBORATE WET FADE (M&S C9A)	4-5	4-5	3-4	4	4
		DOMESTIC & COMMERCIAL LAUNDERING (M & S C10A)	4 Br	4	2	4	4

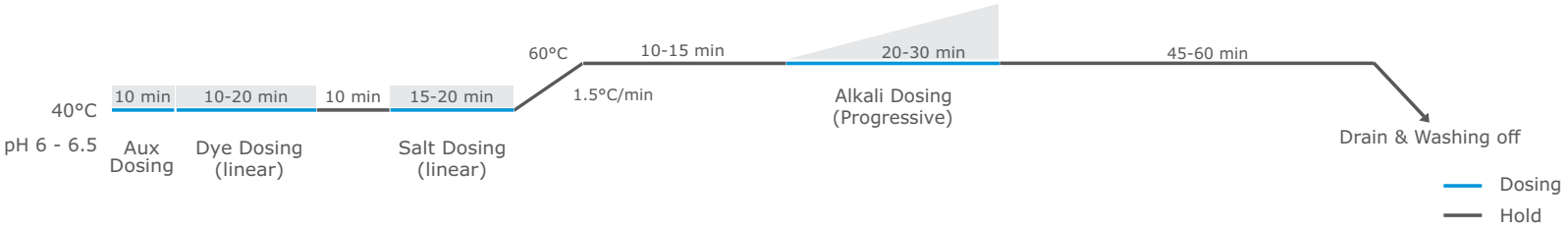
Warm Exhaust Dyeing

Isothermal Process



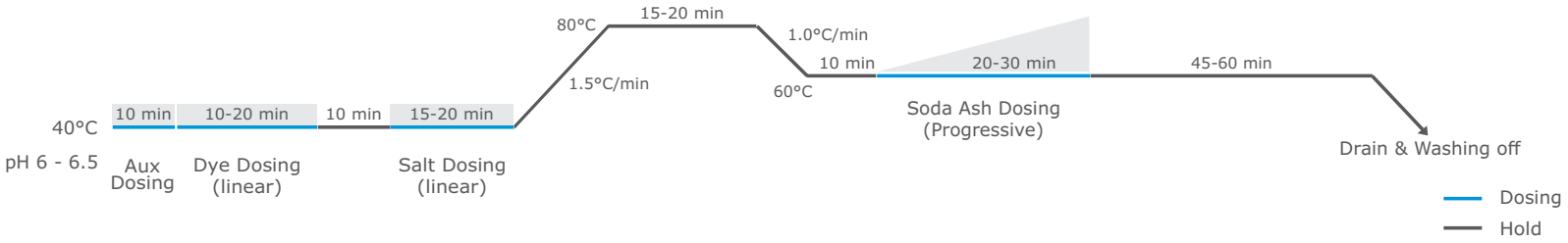
Auxiliaries: OXXI.J DRS - 1.0 g/l, OXXI.J LUB20 - 1.0 g/l (For Knits)

Temperature Rise Process



Auxiliaries: OXXI.J DRS - 1.0 g/l, OXXI.J LUB20 - 1.0 g/l (For Knits)

Migration Process



Auxiliaries: OXXI.J DRS - 1.0 g/l, OXXI.J LUB 20 - 1.0 g/l (For Knits)

Warm Exhaust Dyeing

Salt and Alkali Table

Dyestuff%	Common Salt (g/l)	Single Alkali	Alkali System	
			Mixed Alkali	
		Soda Ash (g/l)	Soda Ash (g/l)	Caustic Soda 50% (ml/l)
<0.1	20	5	5	0
0.1 to 0.5	20 - 25	5 - 7	5	0.6 - 0.75
0.5 to 1.0	25 - 40	7 - 10	5	0.75 - 0.9
1.0 to 2.0	40 - 50	10 - 13	5	0.9 - 1.2
2.0 to 3.0	50 - 60	13 - 15	5	1.2 - 1.5
3.0 to 5.0	60 - 80	15 - 20	5	1.5 - 2.0
>5.0	80 - 100	20	5	2.0

Washing-off Process for Exhaust Dyeing

- Rinse at room temperature or with warm water (50°C) for 10 min
- Neutralize with Acetic Acid (pH 6 -6.5)
- Soap with OXXI.J WO 800 1-2 g/l at 90 - 95°C for 10 - 20 min**
- Hot wash at 70 - 80°C for 10 min
- Room temperature wash for 10 min
- Neutralize with Acetic Acid (pH 6 -6.5) & dye fixing* if required

* OXXI.J FX 60 - 0.5 -1% OWM

** For dark shades double soaping may be required for better fastness

* Glauber salt recommended

#OWM - on weight of material

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CIN : U24119GJ2000PLC037683

Member ETAD Azo colorants

GOTS compliant

ISO 9001
ISO 14001
ISO 45001

bluesign SYSTEM PARTNER

ROADMAP TO ZERO

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