

**Spectron<sup>®</sup> PX**

Reactive dyes for Printing of Cellulosic fabrics



# Spectron® PX

- Reactive dyes for printing of cellulosic substrate
- Suitable for all printing fixation methods such as saturated steaming, pressure steaming and print-dry-silicate pad-batch
- Easy wash-off with almost nil ground staining
- Good over all fastness profile
- ZDHC MRSL v.3.1. conformance Level 3 (CtZ- Progressive Level) approved

## Recommended print paste recipe:

	<u>One phase method</u>	<u>Two phase method</u>
Spectron PX dyes	X parts	X parts
Urea	10-15 parts	5-10 parts
Sodium bi-carbonate	2-4 parts	-
Resist salt	1-2 parts	-
Thickener	Y parts	Y parts
Water	Z parts	Z parts
<b>Total</b>	<b>100 parts</b>	<b>100 parts</b>

## Recommended print fixation method:

### One phase method

Print → Dry → Saturated steaming at 102°C for 10 min. → After treatment

### Two phase method

Print → Dry → Pad [102°Tw sodium silicate **OR** 65°Tw sodium silicate + 3-8ml/l Caustic soda(72°Tw)] → Batch for 16-24 Hrs. → After treatment

## Recommended after treatment process:








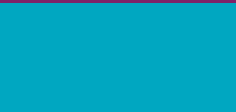



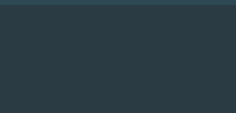
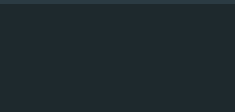
Cold Rinse → Neutralise → Hot Rinse → Soaping → Soaping (Optional) → Hot Rinse → Cold Rinse → Dry

### Note:

- First cold wash is recommended to be an overflow rinse with good agitation
- Anionic soap is recommended for soaping.
- Avoid caustic soda for viscose rayon and other regenerated cellulosic fabrics.
- Second washing is necessary for darker shades. Extra cold rinse at start is also recommended for darker shades

## Technical Profile

- Fastness is tested at 2% print (6% for Blacks) on 100% cotton woven fabric.

SPECTRON	Shade	Light Fastness ISO 105 B02 (Upto 6)	Wash ISO 105 C10:C 60°C	Water ISO 105 E01	Perspiration ISO 105 E04		Chlorinated Water ISO 105 E03 (20 ppm)	Neutral Solubility (gm/litre)
		0.33% 2.00%	CoS CO	CoS CO	Acidic CoS CO	Alkaline CoS CO	Change of Shade	
Yellow PX6G		6	4-5	4-5	4-5	4-5	3-4	100
		6	4-5	4-5	4-5	4-5		
Golden Yellow PXGR		6	4-5	4-5	4-5	4-5	4	100
		6	4-5	4-5	4-5	4-5		
Orange PXRN		3-4	4-5	4-5	4-5	4-5	4	100
		4-5	4	4	4	4		
Red PXB		4	4-5	4-5	4-5	4-5	4	100
		4	4-5	4-5	4-5	4		
Red PX2B		4	4-5	4-5	4-5	4-5	4	100
		4	4-5	4-5	4-5	4		
Red PX4B		3	4-5	4-5	4-5	4-5	4	100
		4	4-5	4-5	4-5	4-5		
Magenta PXN		2-3	4-5	4-5	4-5	4-5	3-4	100
		3	4	4-5	4-5	4-5		
T. Blue PGR		4	4	4-5	4-5	4-5	3-4	100
		5	3-4	3-4	3	3-4		
Blue PX3R		5	4-5	4-5	4-5	4-5	3-4	100
		6	4-5	4	4	4		
Navy PX2R		3-4	4-5	4-5	4-5	4-5	4	100
		4	4	4	3-4	4		
Black PXN		5	4-5	4	4-5	4	4	100
		6	4	3-4	3-4	3-4		
Black PXGR*		5	4-5	4-5	4-5	4-5	4	200
		2-3	4	4	4	4		
Black PXDN*		5	4-5	4-5	4-5	4-5	3-4	200
		2-3	4	4	4	4		

\* Fastness tested at 6% print (Light fastness at 1% & 6%)

**Abbreviation:** Cos = Change of Shade, CO = Cotton staining



**Certificate Number 6768**  
**ISO 9001**  
**ISO 14001**  
**ISO 45001**



**ØZDHC MRSL v3.1 Conformance Level 3**  
**Chemical to Zero(CtZ) - Progressive Level**

**COLOURS**  
**INDIA INC**

Plot No. C/1, 5622/1, Phase-II, Near Green Environment Plant, GIDC Estate, Vatva, AHMEDABAD- 382445, Gujarat, INDIA.

+91-79 48482244/55

spectron@coloursindia.com

www.coloursindia.com