

# ITOFIX LJ800

DYE FIXATIVE FOR CELLULOSIC FIBRES  
USING REACTIVE DYES OR DIRECT DYES



ITOFIX LJ800 has been developed to increase wet fastness for reactive dyes, especially chlorine fastness. It has characteristics of causing very little degradation of light fastness and no shade change by the treatment.

## PROPERTIES

- **Appearance** : Yellowish clear liquid
- **Main Ingredient** : Poly-cationic special high polymer
- **Ionic Character** : Cationic
- **pH** : Approx 2-3 (100%)
- **Solubility** : Readily soluble in cold water

## APPLICATION

### In Exhaustion:

- **ITOFIX LJ800** : 1 - 3%
- **Liquor ratio** : 10:1 @ 50°C pH 4.5 for 15 min

### In Padding:

- **ITOFIX LJ800** : 10 - 20gm/l
- **Dry** : 110°C for 90 sec.
- **Cure** : 150°C for 60 sec

## CHARACTERISTICS

1. ITOFIX LJ800 gives excellent wet contact fastness to cellulosic fibres using reactive dyes.
2. ITOFIX LJ800 gives excellent washing fastness, even synthetic detergents are used.
3. ITOFIX LJ800 causes no shade change.
4. ITOFIX LJ800 causes very little degradation of light fastness.
5. ITOFIX LJ800 has no formaldehyde.
6. ITOFIX LJ800 is also suitable for direct dyes

## DISCLAIMER

The information herein offered is based on the best of our knowledge at present. However, we are not able to guarantee these matters, as the result of application may vary according to conditions adopted. Preliminary tests are, therefore, recommended in all cases. Please refer to MSDS regarding handling of the products.

**MAGNACOLOURS**<sup>®</sup>  
IMAGINATION INK<sup>™</sup>



**MagnaColours Limited**  
Upper Cliffe Road,  
Dodworth Business Park,  
Barnsley, S75 3SP, UK

T: 00 44 (0) 1226 731751  
F: 00 44 (0) 1226 731752  
E: [info@magnacolours.com](mailto:info@magnacolours.com)  
[www.magnacolours.com](http://www.magnacolours.com)

Company registered in  
England No. 01378495,  
VAT No. GB 997 3172 70



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## TEST RESULTS

1	Red 195	5% owf (wet fastness test)
2	Red 120	5% owf (wet fastness test)
3	Blue 222	5% owf (wet fastness test)
4	Blue 19	5% owf (wet fastness test)
5	Red 21	0.2% owf (light fastness test)
6	Blue 49	0.5% owf (chlorine and light fastness test)
7	Blue 21	0.5% owf (chlorine and light fastness test)

Concerning the test dye for wet fastness the specimens were only rinsed, not treated, with soaping agent after being dyed.

### Wet Fastness Test

Test Dye 1 Red 195 5% owf	Cotton				Silk			
	Washing Method A3	Washing Method C2S	Perspiration	Aging Fastness	Washing Method A3	Washing Method C2S	Perspiration	Aging Fastness
Blank	3-4	4	1-2	2	4-5	5-4	3	3
ITOFIX LJ800	5-4	5-4	5	5	5	5	5	5
Existing Product	5-4	5-4	5	5	5	5	5	5
Competing Product	5-4	5-4	4-5	5	5	5	5	5

Test Dye 2 Red 120 5% owf	Cotton				Silk			
	Washing Method A3	Washing Method C2S	Perspiration	Aging Fastness	Washing Method A3	Washing Method C2S	Perspiration	Aging Fastness
Blank	1	2	1	1-2	5-4	5	1-2	1-2
ITOFIX LJ800	4-3	4-3	5-4	5	5	5	5	5
Existing Product	4	3-2	5	5	5	5	5	5
Competing Product	4-3	3-2	5-4	5	5	5	5	5

Test Dye 3 Blue 222 5% owf	Cotton				Silk			
	Washing Method A3	Washing Method C2S	Perspiration	Aging Fastness	Washing Method A3	Washing Method C2S	Perspiration	Aging Fastness
Blank	3	4	1	1-2	5	5	3	3
ITOFIX LJ800	5-4	5-4	5	5	5	5	5	5
Existing Product	5-4	4	5	5	5	5	5	5
Competing Product	4-5	4	5-4	5	5	5	5	5

Test Dye 4 Blue 19 5% owf	Cotton				Silk			
	Washing Method A3	Washing Method C2S	Perspiration	Aging Fastness	Washing Method A3	Washing Method C2S	Perspiration	Aging Fastness
Blank	3-2	3	2	1-2	2	2-1	1	1
ITOFIX LJ800	3-4	3-4	5-4	5	3-4	3	4-3	4
Existing Product	3	3	5-4	5	3-4	3-2	4	4
Competing Product	3	3	5-4	5-4	3	3-2	4	4-3

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## TEST RESULTS

### Light Fastness Test

	Test Dye 5 - Red 21	Test Dye 6 - Blue 49	Test Dye 7 - Blue 21
Blank	4	4-5	4
ITOFIX LJ800	4	5-4	4-5
Existing Product	4-3	4-5	4
Competing Product	3-4	4-5	4

Improves light fastness a half level over existing products.

### Chlorine Fastness Test

Test Dye 6 Blue 0.5% owf	10ppm* 1 time	10ppm* 2 times	1ppm* 3 times	10 ppm* 4 times
Blank	3-	3	2-3	2
ITOFIX LJ800	4	3-4	3	2-3
Existing Product	3-4	3-2	2	1
Competing Product	3-4	3-2	2-3	2-1

Test Dye 8 Blue 21 0.5% owf	10ppm* 1 time	10ppm* 2 times	1ppm* 3 times	10 ppm* 4 times
Blank	4	3-4	3	2-3
ITOFIX LJ800	4	4-3	3-4	3
Existing Product	4	3-4	3	2-3
Competing Product	4	3-4	3	2-3

Improves chlorine fastness over existing products 1 or 2 levels with both dyes.

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