



**ITODIRECT**  
Direct Dyes for Cellulosics

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

# ITODIRECT

## Direct Dyes for Cellulosics



ITODIRECT Dyes are a small range of direct dyes for use on cellulosic fibres. They are ideally suited for the dyeing of cotton blend fabrics and yarns.

### ITODIRECT DYEING METHOD

**Recipe:** x% Dye  
0.5g/l ITOQUEST LJ3-12  
y g/l Salt  
2 g/l Soda Ash (Black KSF 900% only)

**Method:** Heat to 40°C.  
Add chemicals, run for 5 minutes.  
Add dyes, run for 10 minutes.  
Heat at 2°C/min to 100°C.  
Run for 40 to 60 minutes  
Cool at 2°C/min to 60°C.  
Drop liquor and rinse.

### SYMBOLS USED IN FASTNESS COLUMNS

**C** Staining on cotton  
**N** Staining on nylon  
**A** Staining on acrylic

### FASTNESS TEST METHODS

<b>Light Fastness</b>	ISO 105-B02
<b>Wash Fastness</b>	ISO 105-C02
<b>Perspiration Fastness</b>	ISO 105-E02
<b>Rub Fastness</b>	ISO 105-X12

# ITODIRECT

## Direct Dyes for Cellulosics

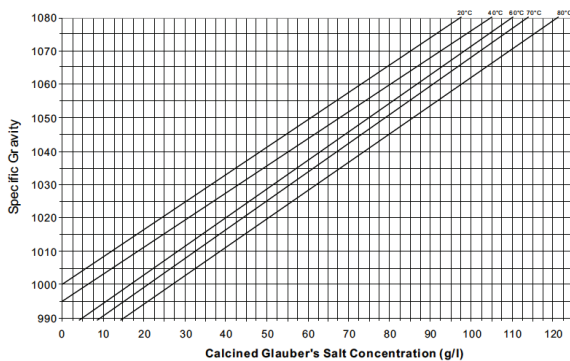


% Dye on cellulose as 100% or in % of blend in pol/cullulosic fabric

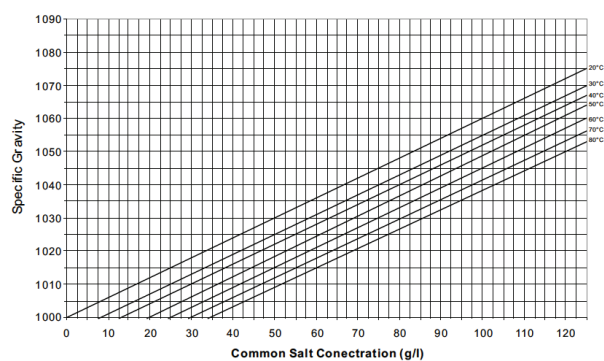
Salt Content (g/l)	% Cellulosic in substrate				
	100%	65%	50%	35%	20%
4	<0.5	<0.33	<0.25	<0.17	<0.1
6	>0.5 - 1	>0.33 - 0.65	>0.25 - 0.5	>0.17 - 0.33	>0.1 - 0.2
12	>1 - 2	>0.65 - 1.3	>0.5 - 1	>0.33 - 0.66	>0.2 - 0.4
20	>2 - 3	>1.3 - 1.95	>1 - 1.5	>0.66 - 1	>0.4 - 0.6
25	>3	>1.95	>1.5	>1	>0.6

ITODIRECT	Fastness Properties at 3%										
	Light	Wet Rub	Wash 50°C			Alk Persp			Acid Persp		
Dyed at 2%, Black at 4%	1/1		C	N	A	C	N	A	C	N	A
Yellow F8G	3	4	5	5	5	5	5	5	5	5	5
Orange TGL 182%	5/6	4	5	5	5	5	5	5	5	5	5
Rose FR	2	4	5	5	5	5	4/5	5	5	5	5
Rubine BLN	6+	4	4/5	4/5	4/5	3/4	4/5	3/4	4/5	5	4
Blue FGL 220%	5/6	4	4/5	4/5	4/5	5	5	5	5	5	5
Grey CRL	6+	4	4/5	5	5	3/4	5	3/4	4/5	5	4/5
Black KSF 900%	3	3	5	5	5	4	4/5	4	4/5	4/5	4

Specific Gravity of Calcined Glauber's Solutions



Specific Gravity of Common Salt Solutions



# REACTIVE DYE RANGES



Application Method	Best Quality	Also Suitable	Cheapest Recipe
<b>EXHAUST</b>			
<b>Warm 50-60°C</b>	ITOFIX VM (pale to medium shades)	ITOFIX VSRR (pale shades)	ITOFIX VS (med-full)
	ITOFIX VMHLF (highest light fastness)	ITOFIX VSRGB (medium to full)	
		ITOFIX VMS (very full shades)	
<b>Hot 80-130°C</b>	ITOFIX CTSNR (pale to full shades)	ITOFIX CT (pale to full shades)	
	ITOREACT (pale to medium shades)		
<b>Cold Pad Batch</b>	ITOFIX VM (pale to medium shades)	ITOFIX VSRR (pale shades)	ITOFIX VS (med-full)
	ITOFIX VMHLF (highest light fastness)	ITOFIX VSRGB (medium to full)	
		ITOFIX VMS (very full shades)	
<b>Pad-Dry-Pad-Steam</b>	ITOFIX VMHLF (highest light fastness)	ITOFIX VSRR (pale shades)	ITOFIX VS
	ITOFIX P (medium to full shades)	ITOFIX VSRGB (medium to full)	
		ITOFIX VMS (very full shades)	
<b>Pad - Dry - Steam</b>	ITOFIX P (pale to full shades)	ITOFIX VSRR (pale shades)	ITOFIX VS
		ITOFIX VSRGB (medium to full)	
		ITOFIX VMS (very full shades)	
<b>Pad - Steam</b>		ITOFIX VM (pale to medium)	ITOFIX VS
<b>Pad-Dry-Thermofix</b>	ITOFIX P (pale to full shades)	ITOFIX VSRGB (medium to full)	ITOFIX VS
	ITOFIX VMHLF (highest light fastness)	ITOFIX VMS (very full shades)	
<b>E Control</b>	ITOFIX P (pale to full shades)	ITOFIX VSRR (pale shades)	ITOFIX VS
	ITOFIX VMHLF (highest light fastness)	ITOFIX VSRGB (medium to full)	
<b>Printing</b>	ITOFIX P (pale to full shades)		ITOFIX VS

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