



ITOFIX VMHLF
Superior Light Fastness Reactive Dyes

MAGNACOLOURS[®]
IMAGINATION INK[®]



ITOFIX VMHLF dyes are a range of dyes designed to give superior light fastness on cellulosic fibres. Ideal for use when standard reactive dyes cannot achieve the required light fastness, ITOFIX VMHLF dyes show good compatibility and excellent level dyeing.

FASTNESS TEST METHODS

Light Fastness	ISO 105-B02
Wash Fastness	ISO 105-C02
Perspiration Fastness	ISO 105-E02
Water Fastness	ISO 105-E01

SYMBOLS USED IN FASTNESS COLUMNS

C	Staining on cotton
N	Staining on nylon
W	Staining on wool

ITOFIX VMHLF DYEING METHOD

Exhaust

Recipe:

x% Dye
0.5g/l ITOQUEST LJ3-12
y g/l Salt
z g/l Alkali

Method:

Heat to 40°C.
Add chemicals and salt, run for 10 minutes.
Heat to 60°C.
Add dyes, run for 30 minutes.
Add alkali over 30 minutes.
(by portions or progressive dosing)
Run for 40 to 60 minutes at 60°C.
Drop liquor and rinse, acid rinse, soap at 100°C.

Cold Pad Batch

Recipe:

x g/l Dye
50g/l ITOPREP MSS
x/5+8 cc/l Caustic Soda 70TW
(x is dye value in g/l)
0.2g/l Itowet LJ10

Method:

Make dye solution up to 4/5 total volume.
Make chemical solution up to 1/5 total volume.
Mix dye and chemical solutions and pad immediately.
Batch long test for 16-24 hours (Quick test 30 mins at 60°C).
Rinse, acid rinse, soap at 100°C.

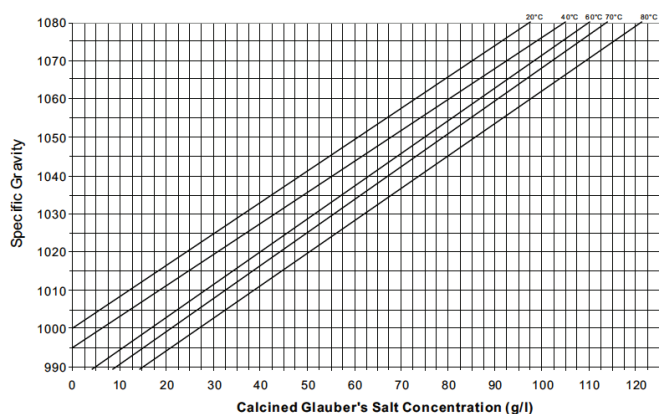


Salt and Alkali Table (Based on 100% strength dyestuffs)

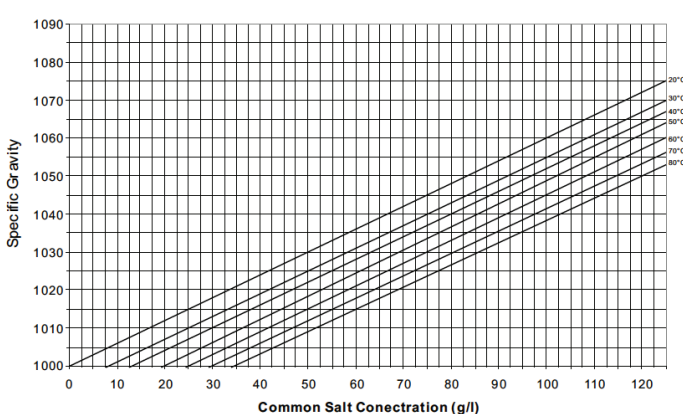
% Dyestuff	Glaubers Salt	Soda Ash	OR	Soda Ash + Caustic 70tw
<0.3	10	10		-
>0.3 - 0.6	20	15		-
>0.6 - 1.0	30	15		-
>1.0 - 1.5	40	20		5+1.0
>1.5 - 3.0	50	20		5+1.5
>3.0 - 5.0	80	20		5+2.0
>5.0	100	20		5+3.0

ITOFIX		Fastness Properties at 3%										
		Sol	Light	Wash 50°C			Alk Persp			Water		
Dyed at 1%		80°C	1/1	C	N	W	C	N	W	C	N	W
Yellow VMHLF		100	5+	4	4	4/5	4/5	4/5	4/5	4/5	4	4/5
Red VMHLF		100	5	4	4/5	4/5	4/5	4/5	4/5	3/4	2/3	4
Bordeaux VMHLF		100	5+	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5
Blue VMHLF		100	5+	4/5	4	4	3	4	4/5	4	4	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
EXHAUST			
Warm 50-60°C	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)	
Hot 80-130°C	ITOFIX CTSNR (pale to full shades)	ITOFIX CT (pale to full shades)	
	ITOREACT (pale to medium shades)		
Cold Pad Batch	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)	
Pad-Dry-Pad-Steam	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)	
Pad - Dry - Steam	ITOFIX P (pale to full shades)	ITOFIX VSRR (pale shades)	ITOFIX VS
		ITOFIX VSRGB (medium to full)	
		ITOFIX VMS (very full shades)	
Pad - Steam		ITOFIX VM (pale to medium)	ITOFIX VS
Pad-Dry-Thermofix	ITOFIX P (pale to full shades)	ITOFIX VSRGB (medium to full)	ITOFIX VS
	ITOFIX VMHLF (highest light fastness)	ITOFIX VMS (very full shades)	
E Control	ITOFIX P (pale to full shades)	ITOFIX VSRR (pale shades)	ITOFIX VS
	ITOFIX VMHLF (highest light fastness)	ITOFIX VSRGB (medium to full)	
Printing	ITOFIX P (pale to full shades)		ITOFIX VS

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