



DYCROFIX JHP

## Dycrofix JHP



Dycrofix Reacti	ve Dyes	Yellow JHP	Brill Red JHP	Navy JHP	Black JHP
1/1 SD (% O.w.f.)		2.8	2.0	2.4	5.5
Light		4-5 / 4-5	4 / 4-5	3-4 / 3	4-5 / 4
Water		4-5 / 4-5	4-5 / 4	4-5 / 4-5	4-5 / 4-5
Perspirati	on	4-5 / 4-5	4/4	4-5 / 4-5	4-5 / 4-5
	CA	4-5	4-5	4-5	4-5
· .	СО	4-5	4-5	4-5	4-5
Washing	СР	4-5	4-5	4-5	4-5
Was	PAS	4-5	4-5	4-5	4-5
	PAN	4-5	4-5	4-5	4-5
	WO	4-5	4-5	4-5	4-5
M&S C10A (Color	retention)	4-5	4-5	4-5	4-5
Chlorinated Water		4-5	4-5	4-5	4-5
Rubbing		4-5 / 3-5	4-5/3	4-5/3	4-5 / 2-3
Dischargeal	oility	B/A	В/В	W/A	W/A

## **Dycrofix JHP Features/Advantages**

The global textile industry is increasingly focused on balancing economic growth with environmental sustainability. As water conservation and ecofriendly practices gain importance, Dycrofix JHP dyes empower textile mills to enhance production efficiency while significantly reducing processing time

Dycrofix JHP redefines standards for deep shades in cotton dyeing, delivering intense color strength, excellent washing fastness, and lower effluent discharge. This cutting-edge technology enables textile mills to achieve superior dyeing results while conserving water, energy, and minimizing their environmental impact.



#### A Sustainable Solution for Modern Textiles

The textile industry is striving to balance economic growth with environmental responsibility. Dycrofix JHP dyes are designed to help mills improve production efficiency while addressing key sustainability concerns, such as reducing water and energy consumption.



## Unmatched Performance for Cotton Dyeing

Dycrofix JHP sets a new quality standard for deep shades in cotton dyeing. With intense color strength and high wet fastness, these dyes deliver superior results. Mills benefit from shorter processing times and less effluent discharge, improving both productivity and environmental impact.



#### Efficient Dyeing with Warm Washing Technology

Dycrofix JHP ensures rapid and high exhaustion for cotton, cellulosic fibers, and blends. The Warm Washing System simplifies hydrolyzed dye removal at low temperatures, reducing water usage by up to 35% and cycle time by 25%, while achieving exceptional wet and overall fastness.



#### ➤ Eco-Friendly and Easy to Implement

Dycrofix JHP dyes meet rigorous environmental standards, including ZDHC Level 3 and approval. These dyes are compatible with existing recipes and processes, ensuring an effortless transition for mills. Long-lasting, stable colors that maintain their vibrancy through multiple washes, supporting sustainability in fashion and apparel.

## Dycrofix JHP dyes Wash-off & Fastness from Warm Washing System



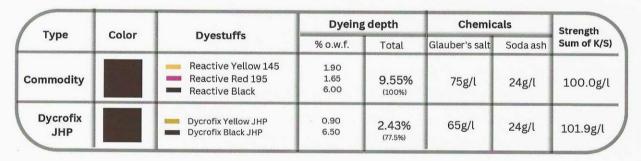


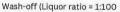






## Case study







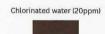




Color Fastness	Acetale	Cofton	Nylon	Polyester	Acrylic	Wool
Washing ISO 105-C04-C25 : 2010		4				
Water 50 105-601 : 2013		4-5				
Perspiration ISO 188-804 (2013 Alkali		4-5				

Color Fastness	Acetote	Cofton	Nylon	Polyester	Acrylic	Wood
Washing ISO 105-C04-C25 : 2010		4				
Water 50 105-601 : 2013		4-5				
Perspiration so (85-804 (2013) Alkali		4-5				

Color Fastness	Acetote	Cotton	Hylon	Folyester	Apylic	Wool	
Washing 80 105-006 C25 : 2010	w	4-5					
Water sio tos-eot : pera.		4-5					
Perspiration 50 105-804 : 2013 Alkali		4-5					





### **Long Lasting colors**





M&S C10A(ISO 105-009) method is to assess any color change which may occur during repeat washing with an oxidative bleach detergent. Tume test has a similar effect to 20times home laundering.

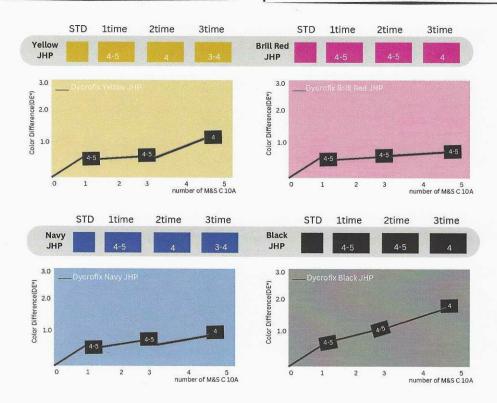
est Method M85 C10A (COLOUR FASTNESS TO OXIDATIVEBLEACH DAMAGE!

ECE Reference Detergent (A) (without optical brightened): 10.0g/L

Sodium Perborate Tetrahydrate (NaB03-4H2O) (12.0g/L

TAED (Tetra-Acetyl Ethylene Diamine) at 100% activity: 1.8g/L

Method: Reagent 100ml. Fabric 1.0g, Liquor Ratio 1100,60 x 30min.



### Dischargeability

Dycrofix

**Navy JHP** 

2.4% O.W.f

Dischargeability varies with the color depth of ground dyeing and a recipe of printing paste.



Method: Rongalite

Dischargeability varies with the depth of ground dyeing and recipe of white discharge. The discharge test was made on cotton fabrics dyed at the standard depth by the following recipes.

Rongalite	20%
Soda ash	5%
Guar Gum	1%
OBA	0.1%
TOTAL	100%







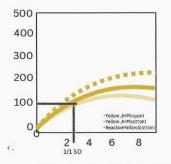


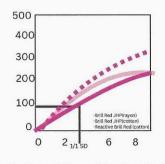
# Dycrofix JHP

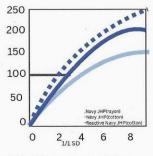
# DYCRO

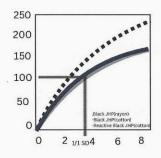
### **Build-up property**

Dycrofix JHP dyes high color intensity results in lower dye and salt requirements, leding to the waem washing System.







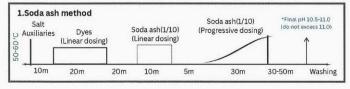


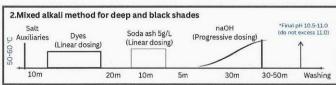
- \*Exhaustion dyeing -Test Fabric: CM 40's interlock, Rayon 30's/span -Method: 60°C x 60min. Liquor Ratio = 1:10 -Chemical Requirement
- 1. Cotton
- 1)Dycrofix Yellow JHP 2)Dycrofix Brill Red JHP 3)Dycrofix Navu JHP 4)Dycrofix Black JHP
- 2 Rayon
- 1)Dycrofix Yellow JHP 2)Dycrofix Brill Red JHP 3)Dycrofix Navu JHP 4)Dycrofix Black JHP

#### **Dyeing process**

The optional dyeing temperature is 50°C-60°C, but the appropriate dyeing temperature depends on the fabric types and dyeing machines.

#### Standard method (Isothermal)





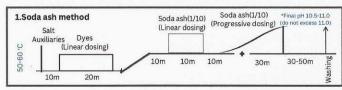
Strong alkali mixed method ensures shorten dyeing process for increased productivity. Soda ash and strong alkali (e.g. Caustic soda) should be added separately.

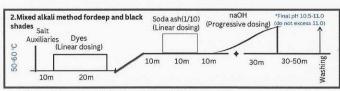
#### Comment:

- -For optimum color yield, less than final pH 11.0 is recommended to avoid excess hydrolysis.
- -50°C dyeing is possible for additional energy savings.
- -Reproducibility is further improved at low liquid ratios dyeing
- -JHP dyes have high fixing ability, thus proper alkali dosing is key factors to achieve the targeted dyeing result.



#### Standard method (Temperature rising)





Strong alkali mixed method ensures shorten dyeing process for increased productivity. Soda ash and strong alkali (e.g. Caustic soda) should be added separately.

