



Adifix BF Series



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Greenville Colorants

	Dye Name	Fixation	Recommended Dyeing Temperature	Solubility G/L 50°C No Salt 50 g/l Salt 80g/l Salt	Copper Containing	Xenon Lightfastness Light * Heavy	Wash Test #2A Alternative Cotton Stain	Wash Test #4A Alternative Cotton Stain	Acid Perspiration Alternate Cotton Stain	Chlorinated Water	Dischargeability
	4% Adifix Yellow BF-3G 150%	Very High	60 °C-80 °C	120 80 30	No	3-4 4-5	5 4-5	5 4-5	5 5	5	Good
	4% Adifix Yellow B4G Conc.	High	60 °C-80 °C	150 100 40	No	3-4 4-5	4 4-5	5 4-5	55 5	5	Good
	4% Adifix Yellow BF-3R	Very High	60 °C-80 °C	100 50 50	No	5 6	4-5 5	4 4-5	54 3-4	4	Good
	4% Adifix Orange BF-2R	Very High	60 °C-80 °C	80 20 20	No	4-5 5-6	4-5 5	4-5 4-5	4 4	3	Fair
	4% Adifix Red BF-3B	High	60 °C-80 °C	100 100 15	No	4 5-6	4 4	4 4	4-5 4	4	Poor
	4% Adifix Red BF-RR	Very High	60 °C-80 °C	80 20 20	No	4-5 5-6	5 5	4-5 4-5	5 4-5	3-4	Fair
	4% Adifix Blue BF-4R	High	60 °C-80 °C	50 20 15	Yes	5 5-6	4-5 4	4 4	4 4	2-3	Poor
	4% Adifix Navy BF-2G	High	60 °C-80 °C	200 50 50	Yes	- 5	4-5 4	3-4 4	4-5 4	3	Good
	2% Adifix Blue BF-BRF 150%	High	60 °C-80 °C	100	3-4	4.5 4	5 5	4.5 4.5	3-4 4	4 4	Very Good
	3% Adifix Navy Blue BF-SBW	High	60 °C-80 °C	120	2-3	4-5 4	4.5 4	4 4	4 3-4	4.5 5	Very Good
	2% Adifix Br. Blue GGCL Conc.	High	60 °C-80 °C	80	-	4.5 4	5 5	4-5 4-5	4-5 4-5	-	Poor
	2% Adifix Navy BF-2GN	High	60 °C-80 °C	65	6-4	4.5 4	5 5	4.5 4.5	-	3.5 4	Very Good
	2% Adifix Navy BF-2GB	High	60 °C-80 °C	60	3	4.5 4	-	4.5 3-4	4 3	3	Very Good
	6% Adifix Black VS-GR*	Very High	60 °C-80 °C	150 100 90	No	- 5-6	4-5 4-5	4 5	5 4-5	3	Poor
	6% Adifix Black RSB*	Very High	60 °C-80 °C	150 100 80	No	- 5-6	4-5 4-5	4-5 4-5	5 4-5	3-4	Good
	6% Adifix Black RSB Conc.*	Very High	60 °C-80 °C	150 100 80	No	- 5-6	4-5 4-5	4-5 4-5	5 4-5	3-4	Good
	6% Adifix Black RKM*	Very High	60 °C-80 °C	150 100 80	No	- 5-6	4-5 4-5	4-5 4-5	5 4-5	3-4	Good

* double Anchor + Bi-functional Dyes



Exhaust Dyeing Methods of Adifix Bi-Functional Reactive Dyes

Dissolving Dyes

Adifix Bi-Functional Reactive Dyes should be dissolved in 190°F water. Live steam cannot be utilized after the dye has been introduced to the mix tank. The dye should be mixed for 10 minutes, then cooled by the addition of cold water into the mix tank.

Dye Procedure Programs

All In/ Temperature Rise

Prepare the fabric as required. Set dye bath at 80°F. Add auxiliaries, dye, salt and alkali. Hold 10 min. Raise the temperature to 140°F at 2°F/min. Hold for 30-45 minutes. Sample. Wash. (See Washing Off)

Constant Temperature Method.

Prepare the fabric as required. Set dye bath at 140°F. Add auxiliaries, dye and salt. Add alkali in 3 portions or meter in. Hold for 15-30 minutes. Sample. Wash. (See Washing Off)

Modifies Procedure for Turquoise. (Phthalocyanine type dyes)

After the holding in one of the above methods, heat to 160°F-180°F at 2°F/min. Hold for 15-30 minutes. Sample. Wash. (See Washing Off)

Salt and Alkali Requirements

Common or Glauber's Salt g/l		Alkali					
Adifix Dyes %	Unmercerized Cotton	Mercerized Cotton Viscose Rayon	Soda Ash Only	Soda Ash	+	Caustic soda 50%	T.S.P.
0-0.50	20-50	20	5.0	5.0	+	-	-
0.5-2.00	75	50	10.0	5.0	+	1.0	10.0
2.0-4.00	100	50	10.0	5.0	+	2.0	12.5
4.0-6.00	100	50	10.0	5.0	+	2.5	15.0
6.0+	100	50	10.0	5.0	+	3.0	15.0

* When using T.S.P. anhydrous, divide by 2.3.

Washing Off

Drain Dye bath. Refill at 120°F. Run 10 minutes. Drop. Repeat once for medium shades, twice for heavy shades. Add 0.50% acetic acid 56%. Run 10 minutes. Drop. Fill with hot water (and soap if needed). Heat to 190°F. Hold 10 minutes. Bath can be dropped hot if fiber or blend does not create crack marks. Fill at 140°F. Hold 10 minutes. Drop. Repeat until clean. Soften as needed.

**Disclaimer:

Seller assumes no obligation or liability, whether in contract, tort, negligence, strict liability or misrepresentation for any advice or assistance given Buyer in relation to the merchandise, such advice or assistance, written or oral, being given without charge and accepted by Buyer's request and at his sole and exclusive risk. Samples will be made available at Buyer's request. Buyers are urged to make their own tests of any product described herein or of any proposed application with respect to which advice or assistance from Seller may be sought.

The fastness properties of the enclosed dyeings are dependent upon the conditions to which they are subjected, and may vary considerably if the dyed fabric is treated with additional chemicals such as fixing or finishing agents. Consequently, the dyed/finished fabric should be tested to assure that the fastness properties meet the necessary requirement. Not all shades can be produced with desired fastness properties. This point should be carefully considered before putting shades into production. The information given is based on work done in our laboratories; consideration should be given to possible variations under local conditions.

Test Data

Solubility g/l

Top number refers to solubility in 50°C water
Middle number refers to solubility in 50°C water and 50 g/l common salt
Bottom number refers to solubility in 50°C water and 80 g/l common salt.

Fixation

The Fixation of dyestuffs was classified into three types depending on the dye up-take at 130°C (266°F) for 30 minutes.

Effect of Metal Ions

Metallic Ions, often present in the water supply, fabric, dyestuff etc./ can have an effect on the shade and/or solubility of yes. For these reasons, it is recommended that a sequestering agent be used in the dye bath. However, chelating agents of the EDTA type should not be used as they destroy the metal complex present in some dyes.

Group	Fixation	Dye Up-Take
A	High	90+
B	Moderate	75-90
C	Low	-75

Light Fastness
Wash Fastness
Perspiration Fastness
Chlorinated Water

AATCC Test method 16-1993
(2A & 4A) AATCC Test methods 61-1994
AATCC Test method 15-1994
AATCC Test method 3-1989