

Experience, Expertise, Excellence :

Expect More...



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The idea of Amtex

Is all here ...





AMRON® HF

1/1 Standard Depth %	Solubility (gpl at 30°C)	Migration Index (%)	Fixation Yield (%)	Process Suitability		Continuous (PDPS / PS)
				Exhaust	Cold Pad Batch	

Light Fastness (AATCC/16E, 20AFU)					Fastness to Washing (ISO 105 C06 / C2S)	Fastness to Water (ISO 105 - E01)	Rubbing Fastness (ISO 105 X12)		Dischargeability	Oxidative Bleach Damage (M&S C10A)	Post Fastness Properties			
1 / 25	1 / 6	1 / 1	Dry	Wet			Chlorinated Water (ISO 105 E03 20ppm)	Mercerizing (ISO 105 X 04)			Acid Perspiration (ISO 105 E04)	Alkali Perspiration (ISO 105 E04)		

	Yellow HF2GL	2.52	100	90	85	🟢	🔴	🔴
	Yellow HFGR	1.95	150	90	82	🟢	🟢	🟢
	Yellow HFCA	1.95	150	78	87	🟢	🟢	🟢
	Orange HFGR	2.50	150	90	85	🟢	🟢	🟢
	Scarlet HF4G	2.87	150	85	90	🟢	🟢	🟢
	Red HF4BL	3.45	100	90	89	🟢	🟢	🟢
	Red HF3GL	1.50	150	90	88	🟢	🟢	🟢
	Red HF3B	2.93	150	90	90	🟢	🟢	🟢
	Brill Red HF2R	3.00	150	90	79	🟢	🟢	🟢
	Blue HFBR	3.12	100	80	90	🟢	🟢	🟢
	Sapphire HFNG	3.33	100	75	90	🟢	🟢	🟢
	Dk Blue HF3G	3.25	150	80	90	🟢	🟢	🟢
	Navy HFBF	4.33	150	85	85	🟢	🟢	🟢
	BLUE HFCA	3.00	100	90	90	🟢	🟢	🟢

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Key to abbreviations : 🟢 - Suitable 🔴 - Not Suitable 🟡 - Partial

Fastness Properties : Upper : Shade Change & Lower : Staining on Cotton



AMRON® HF

1/1 Standard Depth %	Solubility (gpl at 30°C)	Migration Index (%)	Fixation Yield (%)	Process Suitability		Continuous (DPDS / PS)
				Exhaust	Cold Pad Batch	

Light Fastness (AATCC/16E, 20AFU)			Fastness to Washing (ISO 105 C06 / C2S)	Fastness to Water (ISO 105 - E01)	Rubbing Fastness (ISO 105 X12)		Dischargeability	Oxidative Bleach Damage (M&S C10A)	Post Fastness Properties			
1 / 25	1 / 6	1 / 1			Dry	Wet			Chlorinated Water (ISO 105 E03 20ppm)	Mergerizing (ISO 105 X 04)	Acid Perspiration (ISO 105 E04)	Alkali Perspiration (ISO 105 E04)

	Yellow HFNP	1.95	100	85	90	☺	☺	☺
	Yellow HF4G	2.52	100	90	87	☺	☺	☺
	Red HF2F	3.00	150	90	85	☺	☺	☺
	Red HF2BL	3.45	100	85	80	☺	☺	☺
	Brown HFCL	3.30	100	80	77	☺	☹	☹
	Br. Blue HFCL	3.10	100	90	85	☺	☺	☺
	Blue CRX	3.10	100	81	88	☺	☺	☺
	Navy HFBN	3.25	150	70	90	☺	☹	☹
	Blue R SPL	5.00	100	90	90	☺	☺	☺
	Blue RC	4.00	100	90	90	☺	☹	☹
	Royal HRDF	3.55	150	80	90	☺	☺	☺
	Blue HRDF	3.00	100	80	90	☺	☺	☺
	T. Blue G Conc	3.50	100	85	68	☺	☺	☺
	Ultra Black G	5.00	100	90	90	☺	☺	☺

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Key to abbreviations : ☺ - Suitable ☹ - Not Suitable ☹ - Partial

Fastness Properties : Upper : Shade Change & Lower : Staining on Cotton



AMRON® HR2D
AMRON® HRDF

1/1 Standard Depth %	Solubility (gpl at 30°C)	Migration Index (%)	Fixation Yield (%)	Process Suitability		Continuous (PDPS / PS)
				Exhaust	Cold Pad Batch	

Light Fastness (AATCC16E, 20AFU)			Fastness to Washing (ISO 105 C06 / C2S)	Fastness to Water (ISO 105 - E01)	Rubbing Fastness (ISO 105 X12)		Dischargeability	Oxidative Bleach Damage (IM&S C-10A)	Post Fastness Properties			
1 / 6	1 / 2	1 / 1			Dry	Wet			Chlorinated Water (ISO 105 E03 20ppm)	Mercerizing (ISO 105 X 04)	Acid Perspiration (ISO 105 E04)	Alkali Perspiration (ISO 105 E04)

	Yellow HRDF	1.70	200	65	82	☺	☺	☺
	Yellow HR2D	1.40	200	68	83	☺	☺	☺
	Orange HR2D	2.50	200	60	80	☺	☹	☹
	Amber HR2D	1.20	200	90	90	☺	☺	☺
	Red HR2D	2.00	200	82	90	☺	☺	☹
	Red HRDF	2.40	200	80	85	☺	☺	☺
	Ruby HR4D	1.65	200	75	90	☺	☺	☺
	D. Red HR6BF	1.42	200	88	90	☺	☺	☺
	Ultra Red HR4D	1.55	200	90	90	☺	☺	☺
	Crimson HR2D	2.70	200	90	90	☺	☺	☹
	Blue HR2D	3.25	150	80	90	☺	☺	☺
	Navy HR2D	3.00	200	90	90	☺	☺	☺
	Navy HRB	2.25	200	90	90	☺	☺	☺
	Black HR2D	6.30	150	90	90	☺	☺	☺

4	4	4-5	4-5 4	4-5 4	4-5	3-4	☺	4	3	4-5 4	4-5 4-5	4-5 4-5
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Key to abbreviations : ☺ - Suitable ☹ - Not Suitable ☕ - Partial

Fastness Properties : Upper : Shade Change & Lower : Staining on Cotton



MIIND® EQ

	1/1 Standard Depth %	Solubility (gpl at 30°C)	Migration Index (%)	Fixation Yelid (%)	Process Suitability		
					Exhaust	Cold Pad Batch	Continuous (DPDS / PS)

Light Fastness (AATCC/16E, 20AFU)			Fastness to Washing (ISO 105 C06 / C2S)	Fastness to Water (ISO 105 - E01)	Rubbing Fastness (ISO 105 X12)		Dischargeability	Oxidative Bleach Damage (M&S C10A)	Post Fastness Properties			
1 / 6	1 / 2	1 / 1			Dry	Wet			Chlorinated Water (ISO 105 E03 20ppm)	Mercerizing (ISO 105 X 04)	Acid Perspiration (ISO 105 E04)	Alkali Perspiration (ISO 105 E04)

	Yellow EQ	2.00	150	90	82	🌱	🌱	🌱
	Yellow EQ SPL	1.90	150	80	88	🌱	🌱	🌱
	Amber EQ	2.25	150	80	90	🌱	🌱	🌱
	Lt. Red EQ	2.65	150	90	90	🌱	🌱	🌱
	Ruby EQ	1.95	100	90	90	🌱	🌱	🌱
	Red EQ	2.95	150	90	90	🌱	🌱	🌱
	Crimson EQ	2.95	150	89	84	🌱	🌱	🌱
	Cardinal EQ	1.80	150	90	90	🌱	🌱	🌱
	Lt. Blue EQ	3.10	100	90	85	🌱	🌱	🌱
	Blue EQ	2.80	100	90	90	🌱	🌱	🌱
	Sky EQ	3.00	150	90	90	🌱	🌱	🌱
	Dark Blue EQ	2.25	150	90	90	🌱	🌱	🌱
	Deep Sea EQG	2.25	200	90	90	🌱	🌱	🌱
	Black EQ	6.50	150	95	90	🌱	🌱	🌱

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Key to abbreviations : 🌱 - Suitable 🌱 - Not Suitable 🌱 - Partial

Fastness Properties : Upper : Shade Change & Lower : Staining on Cotton

Recommended Salt & Alkali Conc.

For Unmercerised Cotton

MLR = 1: 6

% Depth		0.001 - 0.100	0.101 - 0.800	0.801 - 1.000	1.001 - 2.000	2.001 - 3.001	3.001 - 4.000	4.00 & Above
Glaber Salt (Gpl)		10	20	25	45	50	60	80
Mixed Alkali	Soda ash (Gpl)	10	12	6	5	5	5	5
	NaOH 30 lbs / 66 Yr (ml / l)	-	-	1.00	1.25	1.50	2.00	2.50
Single Alkali (Gpl)	Soda ash	10	12	15	20	20	20	20

For Unmercerised Cotton

MLR = 1: 6

% Depth		0.001 - 0.100	0.101 - 0.800	0.801 - 1.000	1.001 - 2.000	2.001 - 3.001	3.001 - 4.000	4.00 & Above
Glaber Salt (Gpl)		10	25	30	35	40	50	70
Mixed Alkali	Soda ash (Gpl)	12	15	6	5	5	5	5
	NaOH 30 lbs / 66 Yr (ml / l)	-	-	1.25	1.50	2.00	2.50	3.00
Single Alkali (Gpl)	Soda ash	12	15	18	20	20	20	20

For Mercerised Cotton / Regenerated Cellulose

MLR = 1: 6

% Depth		0.001 - 0.100	0.101 - 0.800	0.801 - 1.000	1.001 - 2.000	2.001 - 3.001	3.001 - 4.000	4.00 & Above
Glaber Salt (Gpl)		10	20	25	30	40	45	50
Single Alkali (Gpl)	Soda ash	10	12	15	20	20	20	20

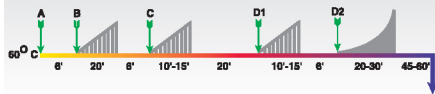
For Mercerised Cotton / Regenerated Cellulose

MLR = 1: 6

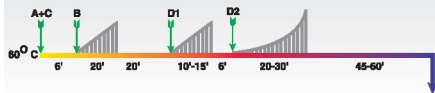
% Depth		0.001 - 0.100	0.101 - 0.800	0.801 - 1.000	1.001 - 2.000	2.001 - 3.001	3.001 - 4.000	4.00 & Above
Glaber Salt (Gpl)		8	15	20	24	32	35	40
Single Alkali (Gpl)	Soda ash	12	15	18	20	20	20	20

Dyeing Process for Amron® / Miind® Dyestuffs

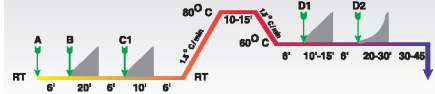
Isothermal Dyeing Method (Dyes at Start)
- Ideal for Medium / Dark Shades



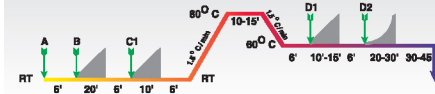
Isothermal Dyeing Method (Salt at Start)
- Ideal for Black / Navy Shades



Migration Dyeing Method
- Ideal for Light / Critical Shades



Migration Dyeing Method
- Ideal for Viscose / Modal / Mercerised Fabrics



Key to abbreviations

A : Dyeing Auxiliaries
B : Dyestuff (Linear Dosing)
C : Salt

D1 : 2.0 - 5.0 GPL Soda (Linear Dosing)
D2 : Balance Quantity of Soda (Progressive)
OH : Balance Quantity of Soda + Caustic (Progressive)

Amtron® Reactive Dyestuffs

Amron® HF Dyestuffs

- ◆ Ideal for Light/Medium shades
- ◆ Valued for high fastness to Light and Perspiration Light
- ◆ Very High IQ Dyestuffs, hence suitable for **Multiple Wash Fastness** (> 25 Washes)

Amron® HRDF Dyestuffs

- ◆ Ideal for Medium to dark bright shades with economy
- ◆ Valued for high Light Fastness & wet Fastness properties for Medium to dark shades.

Amron® HR2D Dyestuffs

- ◆ Ideal for economic dark and extra dark shades
- ◆ Valued for very good light Fastness and other Wet Fastness properties even at very dark shades

Miind® EQ Dyestuffs

- ◆ Ideal for Light/Medium /Dark shades with very high Environment Quotient (EQ).
- ◆ Valued for excellent Light Fastness and Wet Fastness properties at all depths
- ◆ Substantial savings in terms of time /water /energy
- ◆ Improvement in productivity
- ◆ Rare combination of IQ and EQ where EQ > IQ

PROCESS STEP	CHEMICAL	AMOUNT
Padding	Amron / Miind Dyestuff	X gpl
	Wetting Agent	1 gpl
	Soda Ash	20 gpl
	Caustic Soda 36° Be/10° TW	As per below table
	Liquor Pick Up	60-65 %
Batching	Liquor Temperature	20-25°C
	Time	12-16 Hours

Alkali Concentration Table For Cold - Pad - Batch Process

Total Dye gpl	< 10.0	10.01- 20.00	20.01 – 40.00	40.01-60 .00	> 60.00
Soda Ash gpl	20	20	20	20	20
NaOH 36° Be/10° TW ml/l	4	5	6	8	8

Pad - Steam Process

PROCESS STEP	CHEMICAL	AMOUNT
PADDING	Amron / Miind Dyestuff	X gpl
	Wetting Agent	1 gpl
	Soda Ash	20 gpl
	Caustic Soda 36 Be	As per below table
Batching	Liquor Pick Up	60-65 %
	Liquor Temperature	20-25°C
	Temperature	102° C
	Time	60 Seconds

Alkali Concentration Table For Pad Steam Process

Total Dye gpl	< 10.0	10.01- 20.00	20.01 – 40.00	40.01-60 .00	> 60.00
Soda Ash gpl	20	20	20	20	20
NaOH 36° Be/10° TW ml/l	4	5	6	8	8

PROCESS STEP	CHEMICAL	AMOUNT
PADDING	Amron / Miind Dyestuff	X gpl
	Migration inhibitor	10-15 gpl
	Wetting Agent	1 gpl
	Reduction Inhibitor	3-5 gpl
	Liquor Pick Up	60-70 %
	Liquor Temperature	20-25° C
DRYING	Temperature	110-120° C
	Time	60-90 Seconds
	ALKALI PADDING	
	Soda Ash	20 gpl
	Caustic Soda 36° Be/10° TW	10 ml/l
	Glauber Salt	260 gpl
	Liquor Temperature	25° C
	Liquor Pick Up	60-70 %
STEAMING	Temperature	102° C
	Time	60-90 Seconds

Washing Off Process (Exhaust) For Amron® HF / HR2D / HRDF Dyestuffs

Bath	Washing Off Steps	
01	Cold Rinse At 40° C For 10 Min	05 Hot Rinse At 70° C For 10 Min
02	Neutralisation Rinse At 60° C For 15 Min	06 Cold Rinse At 40° C For 10 Min
03	Hot Rinse At 80° C For 10 Min	07 Neutralisation At 40° C For 10 Min
04	Soaping At 90° C For 10 Min	PH - 6 To 7

Washing Off Process (Exhaust) For Miind® EQ

Bath	Washing Off Steps	
01	Rinse At 80° C For 10 Min	04 Hot Rinse At 60° C For 10 Min
02	Neutralisation Rinse At 60° C For 15 Min	05 Neutralisation Rinse At 40° C For 10 Min
03	Soaping At 70° C For 10 Min	PH - 6 To 7

Washing Off Process For Continuous Dyeing

Bath	Washing Off Steps	
01	COLD OVERFLOW RINSE AT ROOM TEMP	04 SECOND SOAPING AT 90 C
02	HOT RINSE AT 80° C	05 HOT RINSE AT 80° C
03	FIRST SOAPING AT 90° C	06 HOT RINSE AT 70° C
		07 NEUTRALISATION RINSE AT 40° C

1. Patterns

The dyed swatches shown in the pattern pages are prepared on bleached un-mercerised cotton knit S/J by Exhaust method under the following dyeing conditions .

Depth of Shade – 1 / 1 SD as specified

M:L – 1:8

Temperature - 60° C

G.Salt /Alkali - As per standard Salt/Alkali Table

2. General/Fastness Properties

Wherever possible , Fastness properties were tested and assessed in accordance with standard international methods issued by ISO/AATCC.

Light fastness was tested in the given standard depths of shade (1/25,1/12,1/6 & 1/1 SD). The other Fastness data referring to dyeing swatches are of 1/1 Standard Depth .

Information/Fastness data given here were compiled with the utmost care & serve as a useful guide to the user . The ratings are specific to the test sample examined, however can not be extended to cover every possible case, which are ,

- Substrate variation
- Dyeing Cycle
- Process Parameters
- Washing off Cycle
- Post washing treatments/Finishes

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