

Certificates



LETTER OF APPROVAL
For Colours and Pigments

Ankit Industries
Plot No. 149, Phase II, GIDC,
Naroda, Ahmedabad-382330,
Gujarat, INDIA

Global Organic Textile Standard (GOTS)
- Version 4.0.2

with positive result

As per the latest GOTS criteria and/or Textile substances are approved as per the requirements for processing of GOTS certified textile products.

Trade Name of Product	Type of Substance	Substance Name	Date of Approval	Company Reference Number
ANKIT YELLOW 166	Reactive Dyes	2-(4-chloro-6-[[3-(3,4-dihydro-2H-pyridin-2-ylideneamino)phenyl]amino]pyridin-5-ylideneamino)phenyl]propanoic acid	28/08/2014	
ANKIT YELLOW 166	Reactive Dyes	2-(4-chloro-6-[[3-(3,4-dihydro-2H-pyridin-2-ylideneamino)phenyl]amino]pyridin-5-ylideneamino)phenyl]propanoic acid	28/08/2014	
ANKIT YELLOW 166	Reactive Dyes	2-(4-chloro-6-[[3-(3,4-dihydro-2H-pyridin-2-ylideneamino)phenyl]amino]pyridin-5-ylideneamino)phenyl]propanoic acid	28/08/2014	
ANKIT YELLOW 166	Reactive Dyes	2-(4-chloro-6-[[3-(3,4-dihydro-2H-pyridin-2-ylideneamino)phenyl]amino]pyridin-5-ylideneamino)phenyl]propanoic acid	28/08/2014	
ANKIT RED 180	Reactive Dyes	2-(4-chloro-6-[[3-(3,4-dihydro-2H-pyridin-2-ylideneamino)phenyl]amino]pyridin-5-ylideneamino)phenyl]propanoic acid	28/08/2014	



Sustainability Support Services (Europe) AB (SSS)

REACH Pre-registration Submission Report from the Only Representative - SSS

Dated: 10th October 2013

Company: ANKIT INDUSTRIES

Note: Please note that the provision for Late Pre-Registration within REACH is available to only those manufacturing companies who have never reported before mentioned substances to Europe anytime before 31st December, 2008 in quantities > 1 tonne per annum. In case any of the information provided by the company is found incorrect at a later stage, SSS (Europe) AB will immediately deactivate the pre-registrations of such substances.

Sr. No.	Name	EC No.	Submission Number	Pre-registration number	Tonnage band	Deadline date	Pre-REP Status
1.	benzothiazol-7-ylideneamino]propanoic acid	279-409-6	SP440137-21	12-2120008922-80-0000	Between 10 and 100 tonnes/year	31.05.2018	Active
2.	benzothiazol-7-ylideneamino]propanoic acid	279-674-2	CB840138-49	12-2120008926-78-0000	Between 10 and 100 tonnes/year	31.05.2018	Active

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Organization No: 596755-6367, VAT No: SE 5967556367
Mårskavägen 6, Lund - 22647, SWEDEN, Contact no: +46 40 280417 / 21 14815
Email: info@reach-enquiry.eu, Website: www.reach-enquiry.eu








ANKIT INDUSTRIES
Dyestuffs

REACTIVE DYES
for dyeing cellulosic fibres

- ANKIT "VS"
- ANKIT "ME"
- ANKIT "BLACKS"
- ANKIT "RR"
- ANKIT "RGB + Ultra RGB"
- ANKIT "ED"
- ANKIT "FS"
- ANKIT "P"



H.O. & Works:
Plots No. 149, GIDC Phase II,
B/H Vimal Water Tank, Naroda,
Ahmedabad 382 330 Gujarat, INDIA

Phone : +91 79 2282 2562, 2282 2940
Fax : +91 79 2281 9058
Website : www.ankitind.com
E-mail : info@ankitind.com • export@ankitind.com

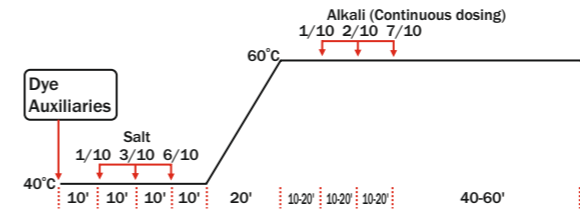
ANKIT "VINYL SULPHONE" SERIES

For Warm Exhaust and Pad Dyeing with excellent wet fastness

ANKIT "VS" DYES	100% Cotton at 60 °C	% OF SHADE	GENERAL PROPERTIES			FASTNESS PROPERTIES				SUITABILITY		
			AFFINITY	SOLUBILITY (PLAIN WATER)	DISCHARGEABILITY	LIGHT FASTNESS (ISO 105-B02)	WASHING FASTNESS (ISO 105-C06)	RUBBING FASTNESS X=12		EXHAUST DYEING	COLD PAD BATCH	STEAM PRINTING (2min 120°C)
								WET	DRY			
Yellow FG (Yellow 42)		3%	M	100	G	4-5	4-5	4-5	4-5	+	+	+
G. Yellow R (Yellow 77)		3%	H	100	G	4-5	4-5	4-5	4-5	+	+	+
Gol. Yellow RNL (Orange 107)		3%	M	100	F	3-4	4	3-4	4	+	+	+
Orange 3R (Orange 16)		3%	M	75	G	4-5	4	4	4	+	+	+
Orange W-3R (Orange MIX)		3%	H	100	G	3-4	4	4	4	+	+	+
Red RB (Red 198)		3%	M	100	F	4-5	4-5	4	4	+	+	+
Red BS (Red 111)		3%	M	110	P	3-4	4-5	3-4	4	+	+	+
Blue BB 133% (Blue 220)		3%	M	80	G	3-4	4-5	4	5	+	+	+
Blue R Sp. 150% (Blue 19)		3%	M	80	P	4-5	4-5	5	4-5	+	+	+
Turq. Blue G 266% (Blue 21)		3%	M	65	P	3-4	3-4	3-4	4	+	+	+
Brown GR (Brown 18)		3%	M	80	G	5-6	5	5	5	+	+	+
Violet 5R (Violet 5)		3%	M	110	G	5-6	4-5	5	5	+	+	+
Black B 133% (Black 5)		6%	M	130	G	4	4-5	3-4	4-5	+	+	+

EXHAUSTION DYEING

Temperature rise method



Salt and Alkali requirements

Depth of Shade %	Salt gms./lt.	Soda Ash (gms./lt.)
Up to 0.5%	30	10
0.5 to 1.0%	40	15
1.0 to 2.0%	50	15
2.0 to 4.0%	50	20
Above 4.0%	80	20

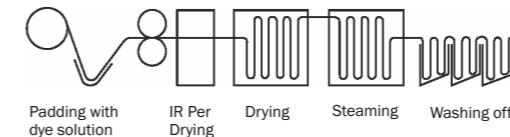
Cold Pad-batch Dyeing



Dyes	X g/l
Penetrating agent	1-2 g/l
Caustic soda	5-35 g/l
Sodium Silicate	40-100 g/l
Batching time	6-24 hr.

Continuous Dyeing

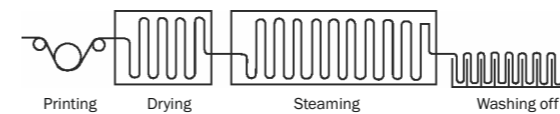
Pad-Day-Steam



Padding Solution

Dyes	X g/l
Urea	0-50 g/l
Reduction inhibitor	10 g/l
Migration inhibitor	1 g/l
Soda ash	10-20 g/l

Printing



Padding

Temperature	20-25 °C
Pick up	60-80 %

Drying Steaming

	110-120 °C
	102-105 °C, 60-90 sec.

Printing Paste Recipe

General recipe for Print is as follows.

Depth	Sodium Alginate	
	Upto 40 Parts Per 1 000 Parts	More than 40 Parts Per 1000 Parts
Water	150-200	200-250
Urea	50-100	100
Resist Salt	10	10
Sodium Bicarbonate	15	30
Sodium Carbonate	15	20
Bulk to	1 000 Parts with Alginate Thickening & Water	





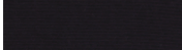
Process

Mix dye powder with urea and pour hot water of temperature about 80-85 °C and stir well to dissolve completely. Add this dye solution to sodium alginate thickening paste containing resist salt stir well to mix. Just before printing add sodium bicarbonate.

Print the cloth with above print paste and dry. Avoid over-drying and protect printed goods from acid or reducing fumes. Then steam dried goods for 5-8 minutes on rapid ager or 15-20 minutes on star ager.






ANKIT "RGB" SERIES

For Warm Exhaust and Pad Dyeing, Economical for medium to dark shades

ANKIT DYES	100% Cotton at 60°C	% OF SHADE	GENERAL PROPERTIES			FASTNESS PROPERTIES				SUITABILITY	
			AFFINITY	SOLUBILITY (PLAIN WATER)	DISCHARGEABILITY	LIGHT FASTNESS (ISO 105-B02)	WASHING FASTNESS (ISO 105 C06)	RUBBING FASTNESS AT 3%		EXHAUST DYEING	COLD PAD BATCH
								WET	DRY		
Yellow RGB		3%	M	110	F	3	4-5	4	4-5	+	+
Red RGB		3%	M	100	F	4-5	4-5	4	5	+	+
Blue RGB		3%	M	100	G	3	4	3-4	4-5	+	+
Navy Blue RGB		3%	M	100	G	3	4-5	3-4	4-5	+	+
Deep Black RGB		6%	M	100	G	3-4	4	3	4	+	+


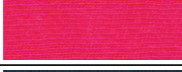

ANKIT "ULTRA RGB" SERIES

For Warm Exhaust and Pad Dyeing, Economical for medium to dark shades

Ultra Yellow RGB		3%	M	110	F	3	4-5	4-5	4	+	+
Ultra Red RGB		3%	M	100	F	4	4	4	4	+	-
Ultra Carmine RGB		3%	M	100	G	4	4	3-4	4-5	+	+
Ultra Orange RGB		3%	M	100	G	3	4-5	3-4	4-5	+	+
Ultra Navy RGB		3%	M	100	G	3-4	4	3	4	+	-










ANKIT "RR" SERIES

For Warm Exhaust dyeing with perfect combinability for medium to pale shades

Yellow RR		3%	M	110	F	4-5	4-5	4	4-5	+	+
Red RR		3%	M	100	F	4-5	4-5	4	5	+	+
Blue RR		3%	M	100	G	4	4	3-4	4-5	+	+





ANKIT "ED" POLY-FUNCTIONAL SERIES

FOR DARK SHADES

ANKIT "ED" DYES	100% Cotton at 60°C	% OF SHADE	GENERAL PROPERTIES			FASTNESS PROPERTIES			
			AFFINITY	SOLUBILITY (PLAIN WATER)	DISCHARGEABILITY	LIGHT FASTNESS (ISO 105-B02)	WASHING FASTNESS (ISO 105 C06)	RUBBING FASTNESS X=12	
								WET	DRY
Yellow ED		3%	H	100	F	4	4-5	3-4	4-5
Orange ED		3%	H	60	G	3	4	3	4-5
Red ED		3%	H	110	P	3-4	4-5	3-4	4-5
Red ED3B		3%	H	110	F	4	4	3-4	4-5
Red ED7B		3%	H	100	F	3-4	4	3	4
Navy ED		3%	H	100	G	4	4	3	4-5
Blue ED		3%	M	65	P	4	4	3-4	4-5
Black EDR		6%	M	100	F	4	4-5	4	4-5
Black EDG		6%	M	110	F	4	4-5	4	4-5

ANKIT "FS" SERIES

High Light fastness dyes for pale shades

ANKIT "FS" DYES	100% Cotton	% OF SHADE	GENERAL PROPERTIES			FASTNESS PROPERTIES				SUITABILITY
			AFFINITY	SOLUBILITY (PLAIN WATER)	DISCHARGEABILITY	LIGHT FASTNESS (ISO 105-B02)	WASHING FASTNESS (ISO 105 C06)	RUBBING FASTNESS AT 3%		EXHAUST DYEING
								WET	DRY	
Yellow FS		1%	M	100	F	4-5	4-5	4	4-5	+
Red FS		1%	M	150	G	6	5-6	4	5	+
Blue FS		1%	M	120	G	5	4	4-5	4-5	+
Navy FS		1%	H	100	G	4-5	4	4-5	4	+

ANKIT "MONOCHLORO TRIAZYNL" SERIES FOR PRINTING

ANKIT "P" DYES	100% Cotton Fabric at 120°C	% OF SHADE	GENERAL PROPERTIES			FASTNESS PROPERTIES				SUITABILITY	
			AFFINITY	SOLUBILITY (PLAIN WATER)	DISCHARGEABILITY	LIGHT FASTNESS (ISO 105-B02)	WASHING FASTNESS (ISO 105 C06)	RUBBING FASTNESS X=12		1 BATH PAD BATCH	STEAM PRINTING (2min 120°C)
								WET	DRY		
Yellow P-4G (Yellow 18)		3%	L	70	G	4	4-5	3-4	4-5	+	+
Yellow P-6G (Yellow 95)		3%	H	70	G	5	4-5	4-5	5	+	+
GoI. Yellow P-3R (Orange 12)		3%	H	100	G	4	4-5	3-4	4-5	+	+
Orange P-2R (Orange 13)		3%	H	60	F	4-5	4	3-4	4-5	+	+
Red PB (Red 24)		3%	M	150	P	4	4-5	4-5	3-4	+	+
Red P-2B (Red 45)		3%	M	150	P	4	4	3-4	4	+	+
Red P-6B (Red 218)		3%	H	100	P	4	5	4	3-4	+	+
Red Brown P-4R (Brown 9)		3%	L	40	P	4	4	4-5	5	+	+
Blue P-5R (Blue 13)		3%	H	60	P	4	3-4	3-4	4	+	+
Blue P-3R (Blue 49)		3%	H	100	P	5-6	4-5	5	4-5	+	+
Navy P2R (Black 39)		6%	H	100	F	4	4-5	4	4	+	+
Black PN (Black 8)		6%	H	50	P	4-5	4-5	4	5	+	+
Black PGR		6%	H	70	F	5	4-5	4-5	3	+	+

ANKIT "ME" SERIES

For Warm Exhaust with normal fastness and good reproductivity

ANKIT DYES	100% Cotton at 60°C	% OF SHADE	GENERAL PROPERTIES			FASTNESS PROPERTIES				SUITABILITY		
			AFFINITY	SOLUBILITY (PLAIN WATER)	DISCHARGEABILITY	LIGHT FASTNESS (ISO 105-B02)	WASHING FASTNESS (ISO 105 C06)	RUBBING FASTNESS X=12		EXHAUST DYEING	CONTINUOUS DYEING	PRINTING
								WET	DRY			
Yellow ME4GL (Yellow 160A)		3%	M	110	G	4-5	4-5	4	4-5	+	+	+
Yellow MERL (Yellow 145)		3%	H	100	F	4-5	4-5	4	4-5	+	+	+
Orange ME2RL (Orange 122)		3%	M	60	P	3-4	4	3-4	4	+	+	+
Red ME4BL (Red 195)		3%	M	100	P	4	4-5	4	4-5	+	+	+
Red ME6BL (Red 250/Red 196)		3%	M	70	P	3-4	4	4	5	+	+	+
Red ME3GL (Red 223)		3%	H	100	F	4-5	4-5	4	4	+	+	+
Blue BRF (Blue 221)		3%	H	100	P	5	5	4-5	4	+	+	+
Blue BRN (Blue 222)		3%	H	100	G	4-5	4	3-4	4	+	+	+
Navy Blue ME2RL (Blue 248)		3%	H	100	P	4	3-4	3-4	4	+	+	+

ANKIT "SUPERIOR BLACK" SERIES

For Warm Exhaust and Pad Dyeing with excellent wet fastness

Black HFGR		6%	H	100	F	3-4	4	3	4	+	-	+
Black DN Conc.		6%	H	100	G	4	4-5	4	4-5	+	+	+
Ultra Black NN		6%	H	100	G	4	4-5	4	4-5	+	+	+
Black WNN		6%	H	100	G	4	4-5	4	4-5	+	+	+
Super Black R		6%	H	100	G	4	4-5	4	4-5	+	+	+
Super Black G		6%	H	100	G	4	4-5	4	4-5	+	+	+
Deep Black N-150 150%		6%	M	100	G	3-4	4	3	4	+	-	+