

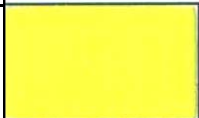
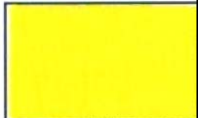
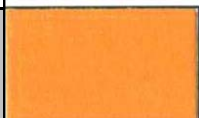

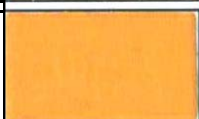
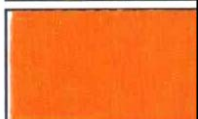
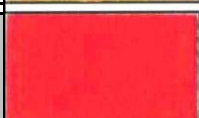





















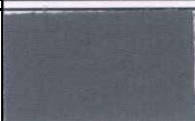



Tecothren	1%	3%	C.I. Vat	Färbe- verfahren Dyeing procedure	Xenonlicht Xenon lamp		Wäsche Washing 95 °C			Bleiche Bleaching				Mercerisieren Mercerising		Bügeln Ironing	
					1/6 RTT 1/6 SD	1/1 RTT 1/1 SD	N	CO	CV	Peroxid/peroxide			Hypochlorit hypochlorite streng/severe	N	CO	sofort/ imme- diately	4h
										N	CO	CV					
Gelb F3GC u.d. Yellow F3GC u.d.			Y 33	IW (IN)	6	6-7	5	5	5	4-5	5	5	4-5	4-5	5	4-5	5
Gelb GC u.d. Yellow GC u.d.			Y 2	IN (IW)	3-4	4	4-5	5	5	4-5	5	5	4	4	5	3-4	4-5
Gelb 3RT u.d. Yellow 3RT u.d.			O 11	IW (IK, IN)	6-7	6-7	4-5	4-5	4-5	4	5	5	4-5	4	5	3-4	4-5
Goldorange 3G u.d. Golden Orange 3G u.d.			O 15	IW (IK)	6	6-7	4-5	5	5	4-5	5	5	4-5	4-5	5	4	4-5
Brillantorange GR u.d. Brilliant Orange GR u.d.			O 7	IN spez. (IN)	5-6	6-7	4-5	5	5	4-5	5	5	5	5	5	5	5
Brillantrot LGG u.d. Brilliant Red LGG u.d.			R 32	Soda-spec. (IW)	4-5	5-6	4-5	5	5	4-5	4-5	4-5	4-5	4	4	4-5	5
Rosa R u.d. Pink R u.d.			R 1	IN	5	6	4-5	5	5	4	4-5	4-5	4-5	4	5	3-4	4
Rot FBB u.d. Red FBB u.d.			R 10	IW (IK)	6	7	5	5	5	4-5	4-5	4-5	5	4	5	4	5

N = Farbtonänderung / Change of shade
CO = Anbluten von Baumwolle / Staining cotton
CV = Anbluten von Viscose / Staining viscose

Tecothren	1%	3%	C.I. Vat	Färbe- verfahren Dyeing procedure	Xenonlicht Xenon lamp		Wäsche Washing 95 °C			Bleiche Bleaching				Mercerisieren Mercerising		Bügeln Ironing	
					1/6 RTT 1/6 SD	1/1 RTT 1/1 SD	N	CO	CV	Peroxid/peroxide			Hypochlorit hypochlorite streng/severe	N	CO	sofort/ imme- diately	4h
										N	CO	CV					
Rubin R u.d. Rubine R u.d.			R 13	IN (IW)	5	6-7	4-5	5	5	4-5	4-5	4-5	4	4-5	5	3-4	3-4
Bordeaux HRR u.d. Bordeaux HRR u.d.			R 15	IN (IW)	5-6	6-7	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-4	4-5	4	5
Brillantblau RCL u.d. Brilliant Blue RCL u.d.			Bl mix	IN	6	7	4-5	4-5	4-5	4-5	5	5	4G	4-5	5	4G	4G
Blau RS u.d. Blue RS u.d.			B 4	IN	6	7	4-5	4-5	4-5	4	5	5	2-3	3	5	4	4
Blau BC.u.d. Blue BC u.d.			B 6	IN	6	7	4-5	5	5	4	5	4-5	3	4-5	3-4	4	4-5
Violett 2R u.d. Violet 2R u.d.			V 1	IN	4	6	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	2-3	3
Dunkelblau BOA u.d. Dark Blue BOA u.d.			B 20	IN	5	7	4-5	4-5	5	4-5	5	5	4-5	4-5	4-5	3-4	4
Dunkelblau DB u.d. Dark Blue DB u.d.			B mix	IN	6	7	4	5	5	4-5	5	5	3-4	4	5	3-4	3-4

N = Farbtonänderung / Change of shade
CO = Anbluten von Baumwolle / Staining cotton
CV = Anbluten von Viscose / Staining viscose

Tecothren	1%	3%	C.I. Vat	Färbe- verfahren Dyeing procedure	Xenonlicht Xenon lamp		Wäsche Washing 95 °C			Bleiche Bleaching				Mercerisieren Mercerising		Bügeln Ironing	
					1/6 RTT 1/6 SD	1/1 RTT 1/1 SD	N	CO	CV	Peroxid/peroxide			Hypochlorit hypochlorite streng/severe	N	CO	sofort/ imme- diately	4h
										N	CO	CV					
Brillantgrün FFB u.d. Brilliant Green FFB u.d.			Gr 1	IN (IK, IW)	6	6-7	4-5	5	5	4-5	5	5	4-5	4	5	3	4-5
Olivgrün B 150% u.d. Olivgreen B 150% u.d.			Gr 3	IN (IW)	7-8	7-8	4-5	5	5	4	5	5	4	3-4	5	3-4	3-4
Oliv T u.d. Olive T u.d.			Blk 25	IN (IN spez.)	7	8	4-5	5	5	4-5	5	5	4	4-5	5	4	5
Oliv R u.d. Olive R u.d.			Blk 27	IW (IN, IK)	6-7	7	4-5	4-5	4-5	4-5	5	5	4	3	5	2-3	3-4
Braun R u.d. Brown R u.d.			Br 3	IW	6	7	4-5	4-5	4-5	4-5	5	5	4-5	4-5	5	4-5	4-5
Braun BRN u.d. Brown BRN u.d.			Br 1	IW (IK)	6-7	7	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3	5	4	4-5
Schwarz R u.d. Black R u.d.			Blk mix	IN spez. (IN)	6-7	7-8	4-5	5	5	4-5	5	5	4-5	4-5	4-5	4	4
Schwarz TC 300% u.d. Black TC 300% u.d.			Blk mix	IN spez. (IN)	6-7	7-8	4-5	5	5	4-5	5	5	4-5	4	4-5	4	4

N = Farbtonänderung / Change of shade
CO = Anbluten von Baumwolle / Staining cotton
CV = Anbluten von Viscose / Staining viscose

		IN process					IN special process				
Chemicals		liquor ratio					liquor ratio				
		1:40	1:20	1:10	1:5	1:2,5	1:40	1:20	1:10	1:5	1:2,5
dyestuff amount	%	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1
NaOH 38°Bé	ml/l	8 - 10	10 - 12	15 - 17	20 - 25	28 - 32	10 - 17	15 - 17	22 - 25	34 - 38	40 - 50
sodium hydrosulfite	g/l	3	3 - 4	3 - 4	6 - 8	8 - 10	3	3 - 4	3 - 4	6 - 8	8 - 10
dyeing temperature/time		50 - 60°C / 15 - 45 min					50 - 60°C / 15 - 45 min				
dyestuff amount	%	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3
NaOH 38°Bé	ml/l	10 - 12	12 - 14	17 - 22	25 - 30	32 - 42	12 - 22	17 - 22	25 - 32	38 - 48	50 - 60
sodium hydrosulfite	g/l	4	4 - 5	4 - 6	8 - 10	10 - 14	4	4 - 5	4 - 6	8 - 10	10 - 14
dyeing temperature/time		50 - 60°C 15 - 45 min					50 - 60°C 15 - 45 min				
dyestuff amount	%	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5
NaOH 38°Bé	ml/l	12 - 14	14 - 16	22 - 26	30 - 35	42 - 52	15 - 26	22 - 26	32 - 38	48 - 58	60 - 70
sodium hydrosulfite	g/l	4 - 5	5 - 6	6 - 8	10 - 12	14 - 18	4 - 5	5 - 6	6 - 8	10 - 12	14 - 18
dyeing temperature/time		50 - 60°C 15 - 45 min					50 - 60°C 15 - 45 min				

		IW process					IK process				
Chemicals		liquor ratio					liquor ratio				
		1:40	1:20	1:10	1:5	1:2,5	1:40	1:20	1:10	1:5	1:2,5
dyestuff amount	%	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1
NaOH 38°Bé	ml/l	5 - 6	6 - 7	7 - 9	12 - 15	18 - 21	3 - 5	4 - 6	6 - 7	9 - 11	13 - 16
sodium hydrosulfite	g/l	2 - 3	2 - 3	2 - 3	5 - 7	6 - 8	2	2	2 - 2.5	2.5 - 4	4 - 6
Glauber's salt calc.	g/l	5 - 10	5 - 10	5 - 10	5 - 10	5 - 10	7.5 - 15	7.5 - 15	7.5 - 15	7.5 - 15	7.5 - 15
dyeing temperature/time		45 - 50°C / 30 - 60 min					20 - 25°C / 30 - 60 min				
dyestuff amount	%	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3
NaOH 38°Bé	ml/l	6 - 7	7 - 9	9 - 12	15 - 20	21 - 26	5 - 6	6 - 7	7 - 9	11 - 14	16 - 21
sodium hydrosulfite	g/l	3	3 - 4	3 - 5	7 - 9	8 - 12	2 - 2.5	2.5 - 3	2.5 - 3.5	4 - 7	6 - 10
Glauber's salt calc.	g/l	10 - 15	10 - 15	10 - 15	10 - 15	10 - 15	15 - 25	15 - 25	15 - 20	15 - 20	15 - 20
dyeing temperature/time		45 - 50°C / 30 - 60 min					20 - 25°C / 30 - 60 min				
dyestuff amount	%	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5
NaOH 38°Bé	ml/l	7 - 9	9 - 10	12 - 15	20 - 25	26 - 32	6 - 8	7 - 8	9 - 12	14 - 18	21 - 26
sodium hydrosulfite	g/l	3 - 4	4 - 5	5 - 7	9 - 10	12 - 16	2.5 - 4	3 - 4	3.5 - 5.5	7 - 10	10 - 14
Glauber's salt calc.	g/l	15 - 25	15 - 20	15 - 20	15 - 20	15 - 20	25 - 35	25 - 35	20 - 25	20 - 25	20 - 25
dyeing temperature/time		45 - 50°C / 30 - 60 min					20 - 25°C / 30 - 60 min				

Attention!

Danger of over-reduction:

Tecothren Blue RS u.d.
Tecothren Blue BC u.d.
Tecothren Dark Blue DB u.d.

Danger of over-oxidation:

Tecothren Pink R u.d.
Tecothren Blue RS u.d.
Tecothren Blue BC u.d.

August 2005

Tecothren, page 4/4