

TRIADE	alan centration 2%	Levelling	Light	Water	Washing	Perspration alk.	Perspiration ac.	Rubiing dry and wet	Alk.Milling severe	Dry cleaning	Solubility
Yellow SG		4-5	6	4-5 4-5	3-4 5	4-5 4-5	4-5 4-5	4-5	3-4 3-4	4	40
			7-8	4-5	5	4	4-5	4	5		
V-II 00I			6-7	4-5	4-5	4-5	4-5	5	4-5		
Yellow 2GL		4	_	4-5	4-5	4-5	4-5		4-5	5	20
			7 5-6	4-5 4-5	5 5	4 4-5	4-5 4-5	4-5 5	4-5 4-5		
Yellow SNW		4-5	5-6	4-5 4-5	5 5	4-5 4	4-5 4-5	5	4-5 4	5	40
		4-5	7	4-5 4-5	5	4	4-5 4-5	4-5	5	3	40
			6	5	5	5	5	4-5	4-5		
Yellow 3R		4		5	5	4-5	5		4-5	5	10
			7	5	5	5	5	4	5		
			5-6	5	5	5	5	5	4		
Yellow 4R		3-4		5	5	5	5		4-5	4-5	-
			7	5	5	5	5	5	5		
			5-6	4-5	4-5	4-5	4-5	4-5	4-5		
Orange RL		4		5	5	4-5	4-5		3-4	4-5	30
			6-7	5	5	5	5	4	4-5		
Orange 2RL			5-6	5	5	5	5	4-5	5		
Orange 2RL		4-5	0.7	5	5	4-5	5		5	4	20
			6-7 6	5 5	5 5	5 5	5 5	<u>4</u> 5	5 4-5		
Red SGN		4	О	5 5	5 5	5 5	5 4-5	5	4-5 4	4	40
		7	7	5	5	5	5	5	4-5	4	40
			4	4-5	4	4-5	4-5	4-5	4		
Red S2B		2-3		4-5	4-5	4-5	4-5		4	4	_
			6	4-5	4-5	4-5	4-5	4	4-5		
			5-6	5	5	5	5	5	4-5		
Red BR		3-4		5	5	5	4-5		4	4	40
			7	5	5	5	5	5	4-5		

TRIADE	alan centration 2%	Levelling	Light	Water	Washing	Perspration alk.	Perspiration ac.	Rubiing dry and wet	Alk.Milling severe	Dry cleaning	Solubility
Bordeaux GRL			6	4-5	4-5	4-5	4-5	4-5	4-5	4.5	00
Dordeaux GIVE		4	7	5 5	5 5	5 5	4-5 5	4	4-5 5	4-5	20
			6-7	5	4-5	4-5	4-5	4-5	3-4		
Bordeaux RL		3-4		4-5	5	4-5	4-5		3	4-5	30
			7	5	5	5	5	4	5		
			4-5	4-5	3-4	4-5	4-5	4	3-4		
Navy Blue SRL		3-4		4-5	4-5	4-5	4-5		4	4	70
			6	4-5	4-5	4-5	4-5	3-4	4-5		
			4-5	5	5	5	5	4-5	5		
Navy Blue S2B		3-4		4-5	4-5	4-5	4-5		3	4	50
			6	4-5	4-5	3-4	4-5	3-4	4-5		
			5	4-5	4	4-5	4-5	4-5	4		
Navy Blue SG		3		4-5	4-5	4-5	4-5		4-5	4	60
			6-7	4-5	4-5	4-5	4-5	4	4-5		
			5	4-5	4-5	4-5	4-5	4-5	4		
Green GL		3		5	5	4-5	5		4	4-5	50
			6-7	5	5	4-5	5	4	5		
			5-6	5	5	4-5	4-5	4-5	4		
Brown 3GL		3		4-5	5	4-5	5		4	4	40
			6-7	5	5	4-5	5	4	5		
			5-6	5	5	5	5	5	4		
Brown SR		4		5	5	5	5		4	4	120
			6-7	5	5	5	5	5	4-5		
			5-6	4-5	3-4	4-5	4-5	4-5	3-4		
Brown BLN		4		4-5	5	5	5		4	4	30
			6-7	4-5	5	5	5	4	5		
			6	4-5	4-5	4-5	5	4-5	4		
Brown BL		3-4		4-5	4-5	5	5		4	4	60
			7	4-5	5	5	5	4	4-5		

TRIADE	Trialan concer 0,5%	Dye ntration 2%	Levelling	Light	Water	Washing	Perspration alk.	Perspiration ac.	Rubiing dry and wet	Alk.Milling severe	Dry cleaning	Solubility
				4-5	5	4-5	4-5	4-5	5	4-5		
Grey BL			4		5	5	5	5		5	4-5	30
				6	5	5	5	5	4	5		
	2,0%	4,0%										
				-	4-5	4-5	4-5	4-5	4	4		
Black BGL			4		4-5	5	5	4-5		4	4-5	30
				7-8	4-5	5	5	4-5	3	4-5		
				-	5	5	4-5	4-5	5	4		
Black RB			4		5	4-5	5	4-5		4	4	-
				7	5	5	4-5	5	5	4-5		

TRIADE	Triasolan Dye concentration		Levelling	Light	Water	Washing	Perspration alk.	Perspiration ac.	Rubiing dry and wet	Alk.Milling severe	Dry cleaning	Solubility
The second secon	0,5%	2%	ت								Ω	
Brilliant Yellow 5GL			4-5	4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5	4-5	4 4-5	4-5	60
Ja 10011 002			4-5	6	4-5 4-5	4-5 4-5	4-5	4-5 4-5	4	4-5 4-5	4-5	50
				4	4-5	4-5	4-5	4-5	4-5	4		100
Brilliant Yellow 3GL			4	7	4-5	4-5	4	4-5 4-5	4-3	4	5	100
				5-6	4-5	4-5	4	4-5	4	4-5	Ü	20
				4	4-5	4-5	4-5	4-5	5	3-4		100
Yellow D3R			4	-	4-5	4-5	4	4-5		3	4-5	
				6	4-5	4-5	4-5	4-5	4	4		-
				5-6	4-5	4-5	4-5	4-5	5	4-5		60
Yellow 5RL			4		4-5	4-5	4	4		4	4-5	
				6-7	4-5	4-5	4-5	4-5	4-5	4-5		50
				5	4-5	4-5	4-5	4-5	4-5	4-5		100
Orange DR			4		4-5	4-5	4-5	4-5		4	4	
				6	4-5	4-5	4-5	4-5	4	4-5		-
				4-5	4-5	4-5	4-5	4-5	4-5	4		100
Red D3G			4		4-5	4-5	4-5	4-5		3-4	4	
				6	4-5	4-5	4-5	4-5	4	4-5		-
				3-4	4-5	4-5	4-5	4-5	4-5	4		50
Red M-BR					4-5	4-5	4-5	4-5		4	4-5	
				5	4-5	4-5	4-5	4-5	4	4-5		50
				4	4-5	4	4	4	4-5	4		100
Red 5RL			4		4-5	4-5	4	4-5		3-4	4	
				5-6	4-5	4-5	4-5	4-5	4	4-5		-
				3	4-5	4-5	4-5	4-5	4-5	4		30
Bordeaux D2B			4		4-5	4-5	4-5	4-5		3-4	3-4	
				4	4-5	4-5	4-5	4	4	4-5		-
DI DD				-	4-5	4	4-5	4-5	4	4-5		100
Blue DR			4		4-5	4-5	4	4-5		3	4-5	
				6-7	4-5	4-5	4-5	4-5	3-4	4-5		-

TRIADE		solan centration 2%	Levelling	Light	Water	Washing	Perspration alk.	Perspiration ac.	Rubiing dry and wet	Alk.Milling severe	Dry cleaning	Solubility
				5-6	4-5	4-5	4-5	4-5	5	4		60
Olive BGL			4		4-5	4-5	4-5	4-5		4-5	4	
				6	4-5	4-5	4-5	4-5	4-5	4-5		40
				4	4-5	4	4-5	4-5	4-5	4		75
Olive GLS			3-4		4-5	4-5	5	5		3-4	4	
				6	5	5	5	5	4-5	4-5		35
				5-6	4-5	4-5	4-5	4-5	4-5	4		80
Brown DB			4		4-5	4-5	4-5	4-5		4	4	
				6-7	4-5	4-5	4-5	4-5	4	4-5		80
				5-6	4-5	5	5	5	5	4-5		45
Brown RL			4		5	5	5	5		4-5	5	
				6-7	5	5	5	5	4-5	5		15
				5-6	4-5	4-5	4-5	4-5	4-5	4-5		80
Brown D2R			4		4-5	4-5	4-5	4-5		4	4	
				6-7	4-5	4-5	4-5	4-5	4	4-5		80
				6	5	5	5	5	5	4		45
Brown 3RL			4		5	5	5	5		4-5	4-5	
				7	5	5	5	5	4-5	5		15
	2,0%	4,0%										
				-	4-5	4	4-5	4-5	4	4		100
Black DR			4		4-5	4-5	4	4-5		3	4	
				7-8	4-5	4-5	4-5	4-5	3-4	4-5		80
				-	4	4-5	4-5	4	5	4		80
Black RLS			4		4	4-5	4	4		4	4	
				7	4	4-5	3-4	4	4-5	4-5		50

Fastness tests in 1/1 Standard Depth

Light ISO 105-B02

Xenonlamp 1/12 and 1/1 Standard Depth

Water ISO 105-E01

Severe : 4 hours at 37°C

Change of shade Staining wool Staining cotton

Washing ISO 105-C01

During 30 minutes at 40°C in a solution of 5 g/l soap.

Perspiration ISO 105-E04

The specimen is treated during 30 minutes at 20°C in a solution with:

- 5.0 g/l Sodium chloride
- 0.5 g/l Histidine Monohydrochloride-monohydrate
- 2.2 g/l Sodiumhydrogen Orthophosphate-dihydrate pH is brought to 5.5 with 0.1N Sodiumhydroxide Liquor ratio 50:1

Pour off the solution and whipe the excess liquor of the specimen.

The specimen is placed between two glassplates in a hydrotest during 4 hours at 37°C under a pressure of 5 kg.

For the alkaline perspiration the pH is brought to 8 with 0.1N Sodium hydroxide.

Rubbing ISO 105-X12

Crockmeter: In 10 seconds 10 times to and from over 10 cm, under a weight of 900 grs.

Upper figure is dry rubbing. Lowest figure is wet rubbing.

Alkaline milling(severe) ISO 105-II

The specimen is treated during 2 hours at 40°C in a solution of 50 grs/l soap and 10 grs/l soda calc. Liquor to ratio 3:1. After 2 hours the ratio is changed in 100:1 with soft water and treatment is continued during 10 minutes.

Dry-cleaning ISO 105-D01

The specimen, between two pieces of cotton, is treated during 30 minutes at 30°C in 200ml perchloroethylene together with 20 steelballs. After drying, staining of cotton is rated.

Solubility (Trialan dyestuffs)

Dyestuffs is pasted with cold soft water and water of 90°C is added. The solution is stirred during 5 minutes.

Solubility (Triasolan dyestuffs)

Solubility 90°C same method as Trialan Dyestuffs.

Solubility 25°C.

Dyestuff is pasted with cold soft water of 25°C is added.

The solution is stirred during 5 min.

The upper figure is the solubility at 90°C.

The lower figure is the solubility at 25°C.

Levelling

1 = very poor

5 = excellent

1:2 Metalcomplex Dyestuffs Dyeing methods for Trialan Dyestuffs

The dyeing bath is prepared with soft water of 30-40°C containing:

1-2% appropiate levelling agent

2-5% Ammonium Sulphate

The properly prewashed woollen material is pretreated in this bath during 10 minutes.

The well dissolved dyestuff is added.

The temperature is raised to 98°C within 30-45 minutes at this temperature.

If necessary add 0.5 - 1% Acetic Acid 60% for complete exhaustion.

Cool down and rinse slowly by adding water and draining the bath.

A last rinsing with 2-3% Formic Acid 85% is advantageous for the dyed woollen material.

Special method for Trialan Black

The dyeing bath is prepared with soft water of 50-60°C containing:

2-3% appropriate levelling agent 4-6% Formic Acid 85%

The properly prewashed woollen material is pretreated in the bath during 10 minutes.

The well dissolved dyestuff is added.

The temperature is raised to 98°C within 30 minutes and dyeing is continued during 60-90 minutes at 98°C.

Cool down and rinse slowly by adding water en draining the bath.

Sulphonated 1:2 Metalcomplex Dyestuffs Dyeing method for Triasolan Dyestuffs

The dyeing bath is prepared with soft water of 30-40°C containing:

2% appropiate levelling agent2-5% Ammonium Sulphate

pH 5.5

The properly prewashed woollen material is pretreated in the bath during 10-15 minutes.

The well dissolved dyestuff is added.

The temperature is raised to 98°C within 30-45 minutes and dyeing is continued during 30-45 minutes at 98°C. If necessary add 0.5 - 1% Acetic Acid 60% for complete exhaustion.

Cool down and rinse slowly by adding water and draining the bath.

A last rinsing with 2-3% Formic Acid 85% is advantageous for the dyed woollen material.

