



DyStar

Working for your benefit.

# Indanthren® Violet B Colloisol





## Indanthren Violet B Colloisol

Indanthren Violet B Colloisol is a top-of-the-range violet vat dye with very high fastness. Its shade lies between C.I. Violet 1 and Violet 9. It has far better levelling properties than any other violet dye. This also applies to combinations and when used as a shading dye.

Indanthren Violet B Colloisol is an excellent product for violet shades and as a shading component for reds and blues and is very suitable for exhaust and continuous dyeing of CEL and PES/CEL.

Indanthren Violet B Colloisol meets all major ecological requirements as it does not contain organically bonded halogens or heavy metals.

Indanthren (1/1 S.D.)		Violet B	C.I. Violet 1	C.I. Violet 9
<b>Fastness to</b>				
Light (xenotest)	1/12 S.D.	6	4	4
ISO 105-B01	1/1 S.D.	7	6	5–6
Washing at 95 °C	F	4–5	4–5	4–5
ISO 105-C04	Co	4–5	4–5	5
Washing / peroxide 95 °C	F	4–5	4–5	4–5
DIN 54015	Co	4–5	5	5
Hypochlorite bleaching, severe	F	4–5	4–5	5
ISO 105-N01				
Peroxide bleaching (bath 2)	F	4–5	4–5	4–5
ISO 105-N02	Co	4–5	5	5
Mercerising	F	4R	4R	3R
ISO 105-X04	Co	5	5	5
Water spotting, ISO 105-E07				
immediately	F	4–5	2–3R	3R
dry	F	5	5	5
Dry cleaning (PER)	F	4R	4R	4R
ISO 105-D01	Co	5	5	5
Ironing, ISO 105-X11				
dry, immediately	F	4R	3B	3B
dry, after 4 h	F	4–5	3B	3–4B
wet bleeding	Co	5	5	5
<b>Change of shade during soaping</b>	<b>1 min</b>	<b>4–5 R</b>	<b>3–4 R</b>	<b>3–4 R</b>
	<b>20 min</b>	<b>4 R</b>	<b>3 R</b>	<b>3 R</b>

B = bluer, Y = yellower/greener, R = redder, C = clearer, D = duller

## Customer benefits



### Controlled Coloration

- Very suitable for all exhaust and continuous processes
- Very good levelling power
- Suitable for high temperature processes
- Colour constancy at different dyeing temperatures/ liquor ratios
- No impact of hard water salts on the shade
- No shade variation with oxidation at various pH values
- No impact of soaping conditions on shade

### Color Confidence

- Suitable for very pale shades
- Very good light fastness
- Good chlorine fastness
- Fast to bleaching of coloured goods
- Meets all major ecological requirements
- Recommended for decoration articles, washables, leisure wear, sportswear, out-door articles and workwear

### Indanthren Violet B Colloisol



1 g/kg



5 g/kg

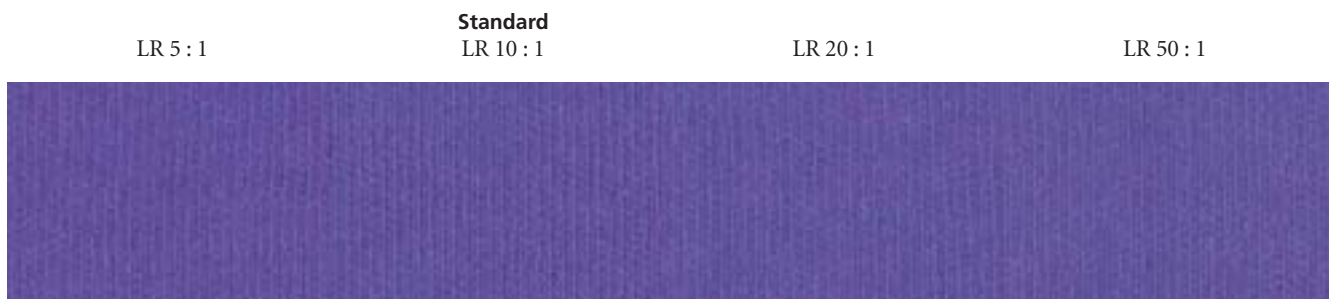


10 g/kg

## Colour constancy at different dyeing temperatures



## Colour constancy at different liquor ratios



### 2.0% Indanthren Violet B Colloisol

Method: standard dyeing

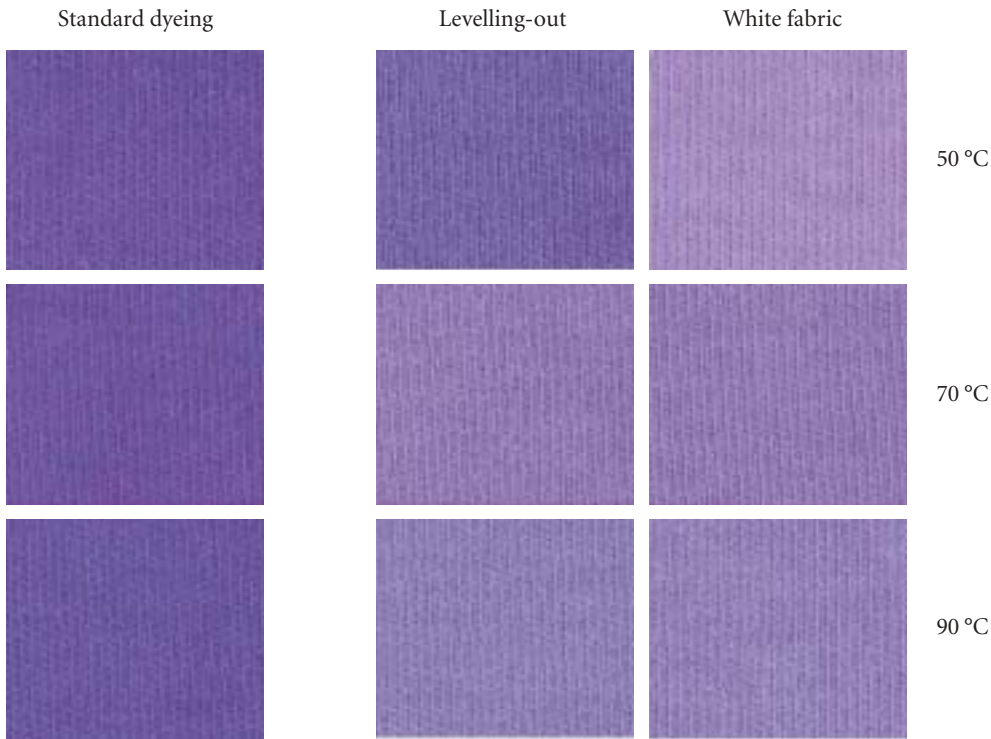
- ... % dye
- 2.0 g/l Dekol® SN
- ... ml/l caustic soda 38 °Bé
- ... g/l hydrosulphite
- ... g/l Glauber's salt calc. (IW)

45 min at 50 °C, IW  
LR 10 : 1  
Rinse, oxidise, soap

Fabric: CO knitgoods



# Levelling-out in the exhaust process



## 2.0% Indanthren Violet B Colloisol

Method: standard dyeing

- ... % dye
- 2.0 g/l Dekol SN
- ... ml/l caustic soda 38 °Bé
- ... g/l hydrosulphite
- ... g/l Glauber's salt calc. (IW)

45 min at 50 °C, IW  
LR 10 : 1  
Rinse, oxidise, soap

Fabric: CO knitgoods

Method: levelling-out of standard dyeing and white material (1 : 1)

- 2.0 g/l Dekol SN
- ... ml/l caustic soda 38 °Bé
- ... g/l hydrosulphite

30 min at 50 °C, 70 °C, 90 °C  
LR 20 : 1  
Rinse, oxidise, soap

## Sensitivity of the sodium leuco compound to hard-water salts

400 mg/l  $\text{CaCl}_2 \times \text{H}_2\text{O}$   
(20 °dH)

Standard

880 mg/l  $\text{MgSO}_4 \times \text{H}_2\text{O}$   
(20 °dH)



### 2.0% Indanthren Violet B Colloisol

Method: standard dyeing

... % dye  
 2.0 g/l Dekol SN  
 ... ml/l caustic soda 38 °Bé  
 ... g/l hydrosulphite  
 ... g/l Glauber's salt calc. (IW)

45 min at 50 °C, IW  
 LR 10 : 1  
 Rinse, oxidise, soap

Fabric: CO knitgoods



## Effect of soaping time on shade

### Indanthren Violet B Colloisol



Unsoaped

Soaped 1 min

Soaped 20 min

### C.I. Vat Violet 9



Unsoaped

Soaped 1 min

Soaped 20 min

### C.I. Vat Violet 1



Unsoaped

Soaped 1 min

Soaped 20 min

Method: standard dyeing (pad-dry-pad-steam)

Padding                   ... g/l   dye  
                              10 g/l   Primasol® AMK  
                              2 g/l    Primasol NF  
                                                  Pick up 70%

Pad-steam development  
Rinse, oxidise, soap

Fabric: CO 100%



## Effect of water spotting

### Indanthren Violet B Colloisol



Immediately



Dry

### C.I. Vat Violet 9



Immediately



Dry

### C.I. Vat Violet 1



Immediately



Dry

Method: standard dyeing (pad-dry-pad-steam)

Padding	... g/l	dye
	10 g/l	Primasol AMK
	2 g/l	Primasol NF
		Pick up 70%

Pad-steam development  
Rinse, oxidise, soap

Fabric: CO 100%



## Comparisons

Recipe with 15 g/l Indanthren Violet B (pad-dry-pad-steam dyeing)

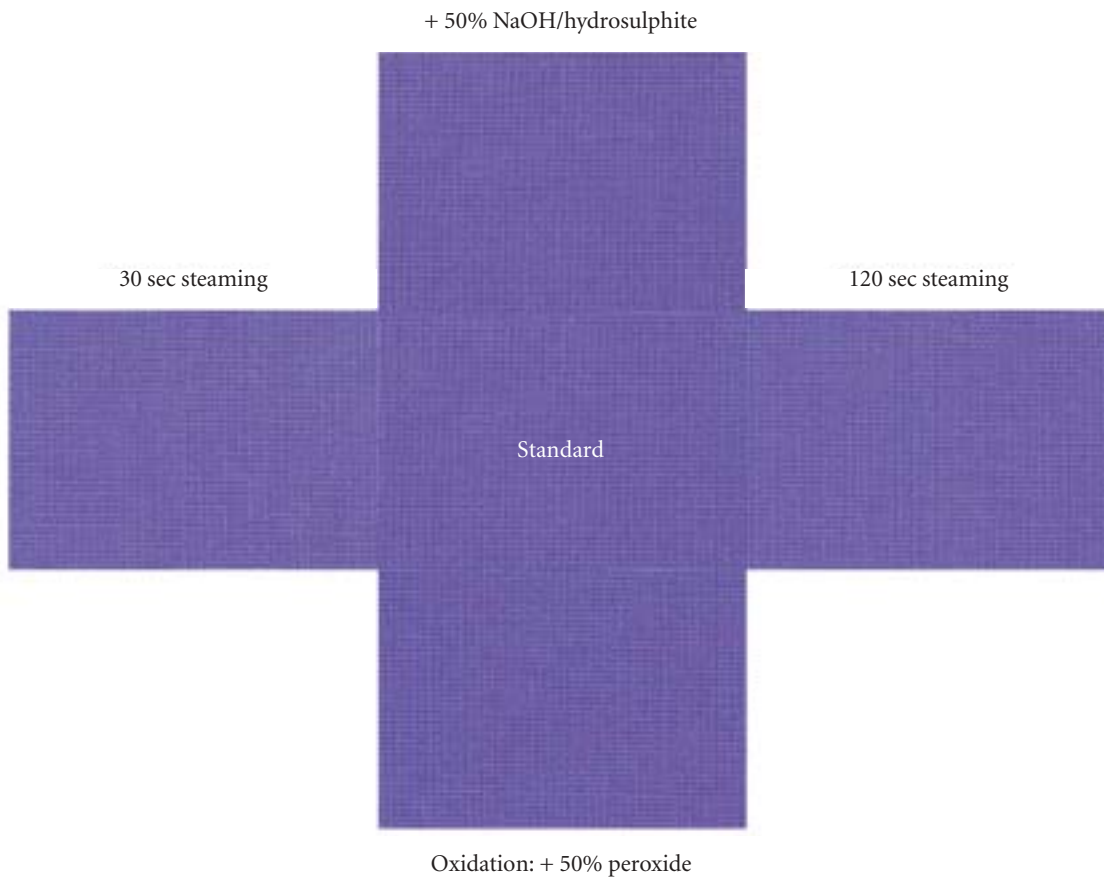


Cotton, bleached

Cotton, bleached, mercerised

Viscose

## Robustness of Indanthren Violet B Colloisol





# Shading examples based on Indanthren Violet B Colloisol

Method: standard dyeing (pad-dry-pad-steam)



2.0 g/l Indanthren Violet B Coll  
0.5 g/l Indanthren Red FFB Coll

2.0 g/l Indanthren Violet B Coll

2.0 g/l Indanthren Violet B Coll  
0.5 g/l Indanthren Blue CLF Coll



5 g/l Indanthren Violet B Coll  
1 g/l Indanthren Red FFB Coll

5 g/l Indanthren Violet B Coll

5 g/l Indanthren Violet B Coll  
1 g/l Indanthren Blue CLF Coll



15 g/l Indanthren Violet B Coll  
2 g/l Indanthren Red FFB Coll

15 g/l Indanthren Violet B Coll

15 g/l Indanthren Violet B Coll  
2 g/l Indanthren Blue CLF Coll

## Fastness properties

### Indanthren Violet B Colloisol

#### Light fastness

S.D.	1/12	1/6	1/3	1/1	2/1
Xenon, ISO 105-B02	6	6	6-7	7	7-8

Tested in 1/1 S.D.	Shade	CO
<b>Water-spotting fastness (ISO 105-E07)</b>		
Evaluated after 2 min	4-5	
Evaluated after 10 min	4-5	
Evaluated after drying	5	
<b>Ironing fastness (ISO 105-X11)</b>		
Immediately	4R	
Dry, after 4 h	4-5	
Wet bleeding		5
<b>Wash fastness</b>		
Test 4, 95 °C (ISO 105-C04)	4-5	4-5
Peroxide, 95°C (DIN 54008)	4-5	4-5
<b>Fastness to chlorinated water</b>		
20 mg/l (ISO 105-E03)	4-5	
50 mg/l (ISO 105-E03)	4-5	
100 mg/l (ISO 105-E03)	4-5	
<b>Hypochlorite bleaching fastness</b>		
Severe (ISO 105-N01)	4-5	
<b>Peroxide bleaching fastness</b>		
Bath 2 (ISO 105-N02)	4-5	4-5



## Indanthren range

Yellow 5GF Colloisol	Yellow T-5GF Colloisol liq
Yellow F3GC Colloisol	Yellow T-F3GC Colloisol liq
Yellow 3R Colloisol	–
Golden Yellow RK Colloisol	–
Golden Orange G Colloisol	–
Orange 3G Colloisol	Orange T-3G Colloisol liq
Brilliant Orange GR Colloisol	–
Orange RRTS gran	–
Scarlet GG Colloisol	–
Brilliant Red LGG Colloisol	Brilliant Red T-LGG Colloisol liq
Red FGL Colloisol	–
Red FBB Colloisol	Red T-FBB Colloisol liq
Brilliant Pink R Colloisol	Brilliant Pink T-R Colloisol liq
Rubine R Colloisol	–
Red Violet RRN Colloisol 01	–
Brilliant Violet RR Colloisol	–
Brilliant Violet 3B Colloisol	–
Violet B Colloisol	–
Brilliant Blue RCL gran	–
Blue RS Colloisol	Blue T-RS Colloisol liq
Blue BC Colloisol	Blue T-BC Colloisol liq
Blue CLF Colloisol	Blue T-CLF Colloisol liq
Brilliant Green FFB Colloisol	Brilliant Green T-FFB Colloisol liq
Olive Green B Colloisol	Olive Green T-B Colloisol liq
Olive MW Colloisol	Olive T-MW Colloisol liq
Olive R Colloisol	–
Olive T Colloisol	Olive T-T Colloisol liq
Brown BR Colloisol	Brown T-BR Colloisol liq
Brown RN Colloisol	Brown T-RN Colloisol liq
Brown 5170 Colloisol	Brown T-5170 Colloisol liq
Brown LBG Colloisol	Brown T-LBG Colloisol liq
–	Navy Blue T-RR Colloisol liq
Navy SR Colloisol	–
Dark Blue BOA Colloisol	–
Navy Blue BF Colloisol	–
Dark Blue DB Colloisol	Dark Blue T-DB Colloisol liq
Dark Blue 5508 gran	–
Navy Blue G Colloisol	Navy Blue T-G Colloisol liq
Grey 5607 Colloisol	–
Grey NC Colloisol	–
Direct Black RBS Colloisol	Direct Black T-RBS Colloisol liq
Direct Black RB Colloisol	–
Direct Black 5589 Colloisol	Direct Black T-5589 Colloisol liq
Black BB Colloisol	Black BB Colloisol liq



# A full range of products, global service and ongoing innovation create tangible benefits for our customers. Worldwide.



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