



TECHNICAL PRODUCT BROCHURE

ROSELENE VAT POWDER

MICRO DISPERSE VAT DYES

A technical reference for shade selection, fastness performance, batch dyeing and continuous dyeing of cellulosic substrates.

ROSELENE VAT POWDER

PRODUCT OVERVIEW

Micro disperse vat dyes for batch and continuous cellulosic dyeing

A practical vat dye platform for cellulosic systems

Roselene Vat Powder is presented as a finely ground, readily dispersible vat dye range for cotton yarn packages and cotton piece goods. The supplied reference covers batchwise, pigmentation, jigger and continuous pad-steam processes.

UNIFORM DYEING

Designed for uniform, level dyeing of cellulosic fabrics and blends in continuous and batch processes.

MICRO-FINE DISPERSION

Fine particle size supports uniform dispersion, easy reduction and speck-free finishing.

PROCESS FLEXIBILITY

Reference routes include package/exhaust dyeing, jigger development, pigment padding and pad-steam.

FASTNESS REFERENCE

Technical tables cover light, washing, soda boil, bleaching, hot pressing and water spotting.

AT A GLANCE

35

LISTED SHADES

4

DYEING CLASSES

BATCH + CONT.

PROCESS ROUTES

PINK ROSE PIGMENTS PVT. LTD.

Technical values and process recipes are reproduced from the supplied reference material with typographical corrections and Roselene branding. Final shades and process conditions should be validated on the intended substrate and machinery.

CONTINUOUS DYEING RANGE

HIGHLIGHTS & SALIENT FEATURES

Uniform, level dyeing reference for cellulosic fabrics and blends

- Suitable for uniform, level dyeing of cellulosic fabrics and blends by continuous dyeing methods.
- Super-fine, micro-sized particles support uniform dispersion, easy reduction and speck-free finishing.
- Low-dusting handling profile for practical production use.
- Suited to critical quality and fastness requirements when process conditions are properly controlled.

SELECTED SHADE CHARACTERISTICS

Yellow 4GL

C.I. Vat Yellow 33

Bright greenish yellow; all-round fastness, good levelling and high substantivity; suitable for mixture shades.

Yellow 3RTA

C.I. Vat Orange 11

Yellowish orange shade with good fastness and substantivity; suitable for mixture shades.

Red 6B

C.I. Vat Red 13

Bluish bright red shade; excellent light and washing fastness; very good levelling.

Violet RR

C.I. Vat Violet 1

Bright bluish violet shade; good light fastness; moderate levelling.

N. Blue TRR

C.I. Vat Blue 22

Bright navy blue shade with good fastness, levelling and high substantivity.

Blue BC

C.I. Vat Blue 6

Bright blue shade with good light and washing properties; suitable for self and mixture shades.

Jade Green FFB

C.I. Vat Green 1

Bright green shade; excellent fastness, good levelling and substantivity; suitable for self and mixture shades.

Brown BRA

C.I. Vat Brown 1

Reddish brown shade; strong fastness properties and very good levelling; suitable for mixture shades.

Brown RA

C.I. Vat Brown 3

Bright brown shade; excellent fastness and substantivity with good levelling.

Olive T

C.I. Vat Black 25

Brownish olive shade; good light fastness and substantivity; useful as a dulling component.

Grey 2R

C.I. Vat Black 22

Reddish grey shade; good light fastness; suitable for black and mixture shades.

Direct Black AC

C.I. Vat Black 34

Reddish-brown grey black; strong fastness profile; suitable for deep black development.

SHADE & FASTNESS DATA

TECHNICAL DATA

Yellow, orange, red and brown shades

Source-based technical values; digital colour swatches are indicative only.

PROPERTY	Yellow 4GL	Yellow GCN	Golden Yellow RK	Yellow 3RTA	Red 3B	Red 6B	Brown RA
C.I. NAME / REFERENCE	C.I. Vat Yellow 33 40 g/L	C.I. Vat Yellow 2 40 g/L	C.I. Vat Orange 1 40 g/L	C.I. Vat Orange 11 40 g/L	C.I. Vat Red 10 40 g/L	C.I. Vat Red 13 20 g/L	C.I. Vat Brown 3 40 g/L
Dyeing Method	IN at 60°C	IN at 60°C	IK at 30°C	IW at 50°C	IW at 50°C	IN at 60°C	IW at 50°C
Levelling	G	G	G	G	VG	VG	VG
Coverage of dead cotton	M	M	M	M	P	M	P
Polyester Stain	3	3	-	3	3	3-4 R	3
Light - 1/10	3	3	5-6	6	5	6	6
Light - 1/1	4	4	6-7	6-7	7	6-7	6-7
Washing ISO 4 - Effect	4-5	4-5	5	4-5	4-5	4-5	5
Washing ISO 4 - Stain	5	5	5	5	5	5	5
Soda boil - Effect	4-5	4-5	3-4	4-5	4	2-3 BL	4-5
Soda boil - Stain	5	5	4	4-5	4	3	5
Bleaching - Sodium Hypochlorite	5	5	5	4-5	5	4-5	4-5
Bleaching - Hydrogen Peroxide / Effect	4-5	4-5	4	4-5	4-5	5	4-5
Bleaching - Hydrogen Peroxide / Stain	5	5	4	5	5	5	5
Hot Pressing - Dry / Immediately	4	4	4 Y	3-4 GR	4 Y	4-5	4-5 R
Hot Pressing - Dry / After 4 hours	5	5	5	5	5	5	5
Hot Pressing - Wet / Effect	5	5	4-5	5	5	5	5
Hot Pressing - Wet / Stain	5	5	5	5	5	5	5
Water Spotting	4-5	4-5	4-5	4-5	4 BL	3-4 Y	4-5

ABBREVIATIONS: VG = VERY GOOD | G = GOOD | M = MODERATE | P = POOR | R = REDDER | BL = BLUER | GR = GREENER | Y = YELLOWER

SHADE & FASTNESS DATA

TECHNICAL DATA

Brown and blue shades

Source-based technical values; digital colour swatches are indicative only.

PROPERTY	Brown GA	Brown 2GA	Brown BRA	Blue BC	Dark Blue BO	Blue RSN	Brill. Blue RCL
C.I. NAME / REFERENCE	- 30 g/L	- 30 g/L	C.I. Vat Brown 1 40 g/L	C.I. Vat Blue 6 40 g/L	C.I. Vat Blue 20 30 g/L	C.I. Vat Blue 4 40 g/L	- 40 g/L
Dyeing Method	IW at 50°C	IW at 50°C	IW at 50°C	IN at 50°C	IN at 60°C	IN at 60°C	IN at 50°C
Levelling	VG	VG	G	M	M	M	M
Coverage of dead cotton	P	P	M	P	M	P	P
Polyester Stain	3	2-3	3-4 Y	2-3	2 R	3-4	2-3 R
Light - 1/10	6	6-7	6-7	6-7	5	6-7	5-6
Light - 1/1	6-7	7-8	7-8	7-8	7	7-8	6-7
Washing ISO 4 - Effect	4-5	4-5	5	4-5	4 R	5	4-5
Washing ISO 4 - Stain	5	5	5	4	4-5	4-5	4-5
Soda boil - Effect	4	4	5	4-5	4-5	4-5	4
Soda boil - Stain	4-5	5	5	4	4-5	4-5	4-5
Bleaching - Sodium Hypochlorite	4-5	4-5	5	2-3 GR	5	2 GR	3 GR
Bleaching - Hydrogen Peroxide / Effect	4-5	4-5	5	4-5	4-5	4-5	4-5
Bleaching - Hydrogen Peroxide / Stain	5	5	5	5	4-5	4-5	5
Hot Pressing - Dry / Immediately	4 R	4-5 R	4-5	4 GR	3 GR	4 GR	4 GR
Hot Pressing - Dry / After 4 hours	5	5	5	5	4-5	5	4-5
Hot Pressing - Wet / Effect	5	5	5	5	5	5	4-5
Hot Pressing - Wet / Stain	5	5	5	5	5	5	5
Water Spotting	4	4-5	4-5	4 R	4 R	4-5 R	3-4 R

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SHADE & FASTNESS DATA

TECHNICAL DATA

Blue, violet and magenta shades

Source-based technical values; digital colour swatches are indicative only.

PROPERTY	N. Blue TRR	Navy Blue VH	Navy Blue BR	Marine Blue G	Violet RR	Violet BN	Magenta B
C.I. NAME / REFERENCE	C.I. Vat Blue 22 40 g/L	- 40 g/L	C.I. Vat Blue 18 40 g/L	C.I. Vat Blue 16 30 g/L	C.I. Vat Violet 1 20 g/L	C.I. Vat Violet 13 30 g/L	C.I. Vat Violet 3 40 g/L
Dyeing Method	IN at 60°C	IN at 60°C	IN at 60°C	IN at 60°C	IN at 60°C	IW at 50°C	IN at 60°C (INDIGOID)
Levelling	M	M	M	G	M	G	G
Coverage of dead cotton	M	M	M	P	M	M	P
Polyester Stain	3 R	3 R	2-3 R	3	2-3 R	3 R	2-3 R
Light - 1/10	5	5	4	6	4	6	4
Light - 1/1	6	6	6	6-7	6-7	7	5
Washing ISO 4 - Effect	4-5	4-5	4-5	5	4-5	4-5 R	4-5
Washing ISO 4 - Stain	4-5	4-5	4-5	3-4	5	4	5
Soda boil - Effect	4-5	4-5	4 R	4-5	3 R	2	3 Y
Soda boil - Stain	4 R	4 R	4-5	4	4	3	4
Bleaching - Sodium Hypochlorite	4-5 R	4-5 R	5	4	5	5	4-5
Bleaching - Hydrogen Peroxide / Effect	4 R	4 R	4-5	4	5	4	4
Bleaching - Hydrogen Peroxide / Stain	4-5 R	4-5 R	5	4-5	4-5	4-5	4-5
Hot Pressing - Dry / Immediately	3 GR	3 GR	4 R	2-3 R	3 BL	4 R	4 BL
Hot Pressing - Dry / After 4 hours	5	5	4-5	4-5	4 BL	5	4-5
Hot Pressing - Wet / Effect	4	4	5	5	5	5	5
Hot Pressing - Wet / Stain	4-5	4-5	3-4	4-5	5	4-5	5
Water Spotting	4 R	4 R	4 R	4-5	2 R	4	3 R

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SHADE & FASTNESS DATA

TECHNICAL DATA

Violet, green, olive and grey shades

Source-based technical values; digital colour swatches are indicative only.

PROPERTY	Violet 3B	Jade Green FFB	Jade Green 2G	Olive Green B	Olive R	Olive T	Grey 2B
C.I. NAME / REFERENCE	C.I. Vat Violet 9 20 g/L	C.I. Vat Green 1 20 g/L	C.I. Vat Green 2 20 g/L	C.I. Vat Green 3 40 g/L	C.I. Vat Black 27 40 g/L	C.I. Vat Black 25 30 g/L	- 30 g/L
Dyeing Method	IN at 60°C	IN at 60°C	IN at 60°C	IN at 60°C	IW at 50°C	IN at 60°C	IN at 60°C
Levelling	P	G	G	M	G	M	M
Coverage of dead cotton	M	M	G	P	P	M	M
Polyester Stain	2-3 R	2 BL	2	2 Y	4	2-3	2-3
Light - 1/10	4-5	6	5	7	6	6-7	5
Light - 1/1	5-6	7	6-7	8	7	7	6
Washing ISO 4 - Effect	4-5	4-5	5	4	4	4-5	4-5
Washing ISO 4 - Stain	5	4-5	4	4-5	5	5	4-5
Soda boil - Effect	4 R	4-5	4-5	4	4 BL	4-5	3 R
Soda boil - Stain	4-5	5	5	5	5	5	3
Bleaching - Sodium Hypochlorite	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Bleaching - Hydrogen Peroxide / Effect	4-5	5	4-5	4-5	4-5	4-5	4-5
Bleaching - Hydrogen Peroxide / Stain	5	5	5	5	4-5	4-5	4-5
Hot Pressing - Dry / Immediately	2-3 BL	3 BL	3-4 BL	4 Y	2-3 R	4 GR	4 R
Hot Pressing - Dry / After 4 hours	4 BL	5	4-5	5	4 R	5	5
Hot Pressing - Wet / Effect	5	5	5	5	3-4 R	5	5
Hot Pressing - Wet / Stain	5	4-5	4-5	4-5	4-5	5	4
Water Spotting	3 R	4-5 Y	4-5	4-5	4 Y	5	4-5

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SHADE & FASTNESS DATA

TECHNICAL DATA

Grey and black shades

Source-based technical values; digital colour swatches are indicative only.

PROPERTY	Grey 3B	Grey 4B	Grey 2R	Direct Black CH	Direct Black AC	Direct Black R	Black BB
C.I. NAME / REFERENCE	C.I. Vat Black 16 20 g/L	- 40 g/L	C.I. Vat Black 22 20 g/L	- 100 g/L	C.I. Vat Black 34 100 g/L	- 100 g/L	C.I. Vat Green 9 100 g/L
Dyeing Method	IN at 60°C	IN at 60°C	IN at 60°C	IN Special at 70°C	IN at 60°C	IN Special at 70°C	IN Special at 70°C
Levelling	M	M	G	M	M	M	G
Coverage of dead cotton	M	M	M	P	P	P	P
Polyester Stain	3-4	3-4	3 BL	3 R	3	3	3-4 GR
Light - 1/10	5	5	6	5	6-7	5	6-7
Light - 1/1	6	6	7	7	7	6-7	7
Washing ISO 4 - Effect	4 R	4-5	4	4	5	5	5
Washing ISO 4 - Stain	4	4-5	5	3-4	4	4	4
Soda boil - Effect	4 R	4 R	4	5	4-5	5	4-5
Soda boil - Stain	3-4	4	4-5	4-5	4-5	4-5	3-4
Bleaching - Sodium Hypochlorite	3 R	4-5	4-5	4	4-5	5	5
Bleaching - Hydrogen Peroxide / Effect	4 R	4-5	4-5	4	4-5	4-5	5
Bleaching - Hydrogen Peroxide / Stain	4	4-5	5	5	4-5	5	4
Hot Pressing - Dry / Immediately	4-5 GR	3-4 BL	4 GR	4-5	4-5	4-5	5
Hot Pressing - Dry / After 4 hours	4-5 GR	4-5	4-5 GR	5	5	5	5
Hot Pressing - Wet / Effect	4-5	4 BL	4-5 GR	5	4-5	5	5
Hot Pressing - Wet / Stain	5	3-4	5	4-5	4-5	4-5	4-5
Water Spotting	2-3 R	4-5	4	5	4 R	4-5	5

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ROSELENE MICRO DISPERSE VAT DYES

GENERAL & PACKAGE DYEING

General characteristics and pigmentation dyeing reference

GENERAL

Roselene Micro Disperse Vat Dyes are supplied as finely milled, readily dispersible vat dye powders for cotton yarn packages and cotton piece goods. The reference material covers both batchwise and continuous dyeing methods, including exhaust dyeing.

CHARACTERISTICS OF MD GRADES

- Extremely fine and uniform particle size.
- Good dispersion stability in water and ease of vatting.
- Fast rate of reduction in long liquors and short periods; the supplied reference indicates no dye assistants or pre-pasting are required.

TABLE 1 - PACKAGE / EXHAUST REFERENCE

Method	Dyeing Temp. (°C)	M:L Ratio	Caustic Soda (g/L)	Sodium Hydrosulphite (g/L)	Glauber / Common Salt (g/L)
IK	20-25	1:10	3-5	3.5-6.5	15-20
IW	45-50	1:10	5-6	4-6	10-15
IN	50-60	1:10	8-10	5-7	-
IN Special	70-80	1:10	12-15	8-10	-

DYEING BY PIGMENTATION METHOD

1. Disperse Roselene Vat Powder in approximately 10 times its weight of water at 40-50°C with stirring; filter through a fine mesh or filter cloth.
2. Impregnate well-scoured packages with the dispersion and raise the temperature gradually to the selected dyeing temperature.
3. For deeper shades, the reference indicates 10-20 g/L Glauber's salt calcined or common salt, added in 3-4 portions at approximately 5-minute intervals.
4. Add the required caustic soda and sodium hydrosulphite while maintaining even liquor flow / movement.
5. Continue dyeing for approximately 30 minutes at the recommended temperature, then rinse, oxidise and soap thoroughly.

PROCESS NOTE

Chemical additions should be revised to suit dyestuff concentration, liquor ratio, substrate, shade depth and actual machinery.

PIECE GOODS DYEING

PROCESS REFERENCE

Pigment padding with jigger development and pad-steam continuous dyeing

PIGMENT PADDING WITH JIGGER DEVELOPMENT

The supplied reference describes padding the well-scoured dry cloth with the Roselene dye dispersion, followed by jigger development in an alkaline reducing bath. A small quantity of padding liquor may be added to compensate for dye bleed during reduction.

TABLE 2 - JIGGER DEVELOPMENT

Method	Development Temp. (°C)	M:L Ratio	Caustic Soda (g/L)	Sodium Hydrosulphite (g/L)	Salt (g/L)
IW	45-50	1:3	10-18	10-18	10-15
IW	45-50	1:5	7-13	7-13	10-15
IN	50-60	1:3	14-24	14-24	-
IN	50-60	1:5	10-18	9-18	-
IN Special	70-80	1:3	25-40	25-40	-
IN Special	70-80	1:5	20-32	20-32	-

TABLE 3 - PAD-STEAM CHEMICAL PADDING LIQUOR

Dyestuff in padding bath (g/L)	Caustic Soda (g/L)	Sodium Hydrosulphite (g/L)	Glauber / Common Salt (g/L)
up to 10	12-18	12-18	15
10-20	19-25	19-25	15
20-30	26-31	26-31	20
30-40	32-37	32-37	25
40-50	38-45	38-45	30
50-60	46-50	46-50	30

PAD-STEAM NOTES

Reference conditions: liquor pick-up 100%; bath temperature 20-25°C. The supplied card notes that intermediate drying supports fuller, level dyeings and suggests a migration inhibitor such as 20 g/L sodium alginate (4%) where appropriate.

OXIDATION & AFTER-TREATMENT

TECHNICAL REFERENCE

Oxidation methods, Black BB note, soaping and abbreviations

TABLE 4 - OXIDATION METHODS

Oxidation system	Batchwise reference	Continuous reference	Temperature (°C)	Time
Sodium Perborate + Sodium Bicarbonate	2-5 + 2-3 g/L	3-5 + 2 g/L	50-60	20-30 min
Hydrogen Peroxide (130 Vols.) + Acetic Acid	2-3 + 2-5 mL/L	4-6 + 3-6 mL/L	50-60	20-30 min
Sodium / Potassium Bichromate + Acetic Acid 50%	1-2 g/L + 2-5 mL/L	2-3 g/L + 3-6 mL/L	50-60	20-30 min

SPECIAL NOTE - BLACK BB

The source card states that Black BB initially gives a dark green shade and provides separate post-treatment routes for development of a true black shade. Because these routes involve oxidants and/or strong acids, use only under qualified industrial supervision with current SDS, EHS and customer-compliance review.

AFTER-TREATMENT

Rinsing	Rinse thoroughly after oxidation.
Soaping	Reference: 2 g/L Roselene T Powder + 2 g/L soda ash for 20-30 minutes.
Final rinse	Rinse in hot water followed by cold water; neutralise where required.

KEY TO ABBREVIATIONS

IN	Roselene normal	IW	Roselene warm	IK	Roselene cold
IN Spl.	Roselene special	VG	Very Good	G	Good
M	Moderate	P	Poor	R	Redder
BL	Bluer	GR	Greener	Y	Yellower

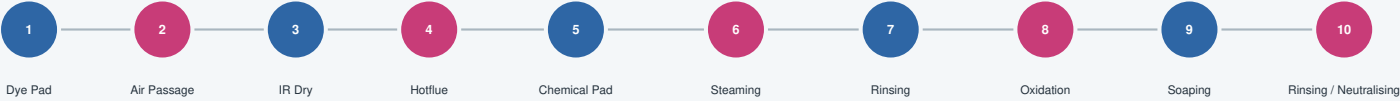
COMPLIANCE NOTE

Bichromate chemistry can be restricted by current regulation or customer standards. Treat it as historical source-card data only and confirm current legal, EHS and customer requirements before use.

PAD-DRY-CHEMICAL PAD-STEAM

APPLICATION REFERENCE

Continuous dyeing workflow and chemical recommendations



DYE PADDING	CHEMICAL PADDING
Roselene Vat Powder X g/L Wetting Agent 2 g/L Migration Inhibitor 10 g/L Pick-up 55-75% Padding Temperature 20-30°C Airing 15-20 sec IR Drying 30% residual moisture (20% for PES/CO) Drying 120-140°C; condition fabric	Caustic Soda (36°Bé) X mL/L Sodium Hydrosulphite Y g/L Sequestering Agent 1-3 g/L Pick-up 80-100% Steaming 45-60 sec with saturated steam Water Seal 20-40°C

CAUSTIC SODA & HYDROSULPHITE RECOMMENDATIONS

Dyestuff (g/L)	Fabric	<10	10-30	>30	Black
Caustic Soda 36°Bé (mL/L)	Light weight	60	90	120	150
	Heavy weight*	90	120	150	180
Sodium Hydrosulphite (g/L)	Light weight	30	45	60	80
	Heavy weight*	40	60	70	90

AFTER-TREATMENT

Rinse with cold water. Oxidise using the validated production route (the supplied reference gives 5 mL/L hydrogen peroxide 30%, pH 9-10, 50-60°C). Soap at 95°C using a suitable soaping agent, rinse at 80-90°C and neutralise with acetic acid as required.

* Heavy-weight reference: fabric weight above 300 GSM in the supplied source card.



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ROSELENE VAT POWDER



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