

Supralan[®]

The new economical all-round product range for dyeing wool in all shades and make-up forms



Advantages of Supralan dyes

Despite global price pressure, there has been a clear shift towards higher quality wool in recent years. Demand for extremely lightweight cloth, fabrics made of fine high-twist yarns and “Cool Wool” is rising. Specially selected dyes and dyeing processes are required for these fabrics.

The new Supralan range of dyes for wool has been developed specifically to meet these increasingly tough demands. Supralan dyes are 1:2 metal-complex and acid (milling) dyes with high wet and light fastness. The dyes are easy to combine as they have very similar build-up and affinity. Thanks to their good levelling properties, Supralan dyes level out differences in affinity, so dyeings meet top quality standards.

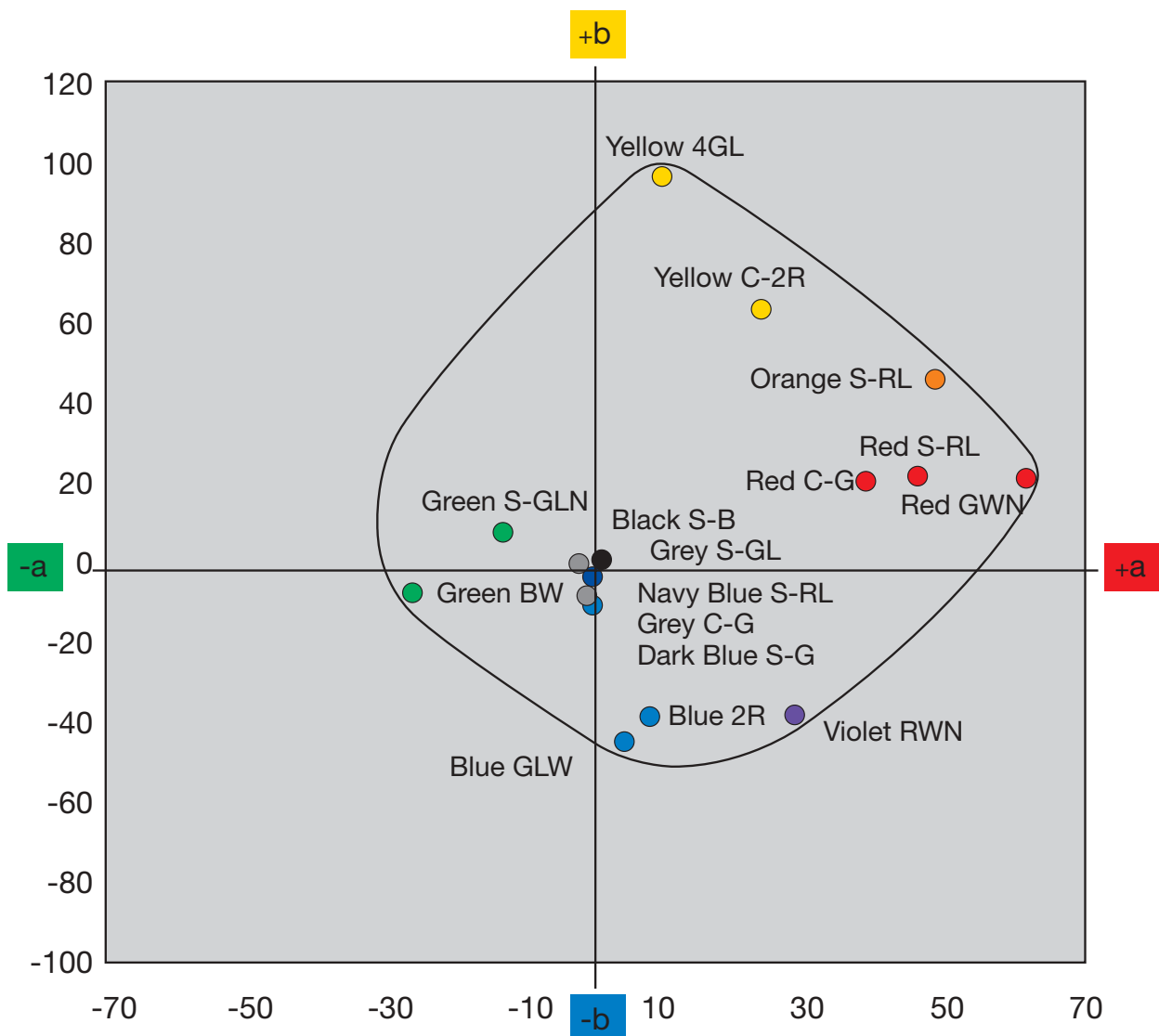
The Supralan product range covers virtually the entire colour spectrum from matt to brilliant and pale to dark shades. Supralan dyes allow reliable and economical dyeing of the latest fashion shades. And because Supralan dyes can be applied to wool in all make-up forms, they help you respond quickly to changing market requirements.



Requirements	Effects	Benefits
Dyeing in the ideal isoelectric range of pH 4.5–5	Minimum wool damage	High quality
Same dyeing process for all depths of shade	Simple to apply	More reliable production
A complete range of 16 dyes with virtually identical dyeing properties	Broad spectrum of shades	Flexibility to meet rapidly changing market requirements
High exhaustion	Reduced dye consumption	Good reproducibility and less effluent load

The new Supralan product range

- Wide range of dyes
- Reliable and economical application
- Versatile products
- High wet and light fastness
- Good levelling of differences in the quality of wool



Supralan raises productivity

Supralan dyes can be used to dye wool in all make-up forms (tops, loose stock, yarn and piece goods). These high-quality, economical dyes can be applied in the ideal pH range of 4.5–5 (isoelectric range). That minimises damage to the fibres and prevents unnecessary delays in subsequent steps (e.g. spinning, knitting and weaving).

	Men's / Ladies' outerwear			Knitwear			Home furnishings			Carpets		
	T	Y	P	T	Y	P	T	Y	P	T	Y	P
Supralan	●	●	●	●	●	●	●	●	●	●	●	◐
T = Tops/Loose stock ● = suitable Y = Yarn ◐ = limited suitability P = Piece goods — = not recommended												

Dyeing process

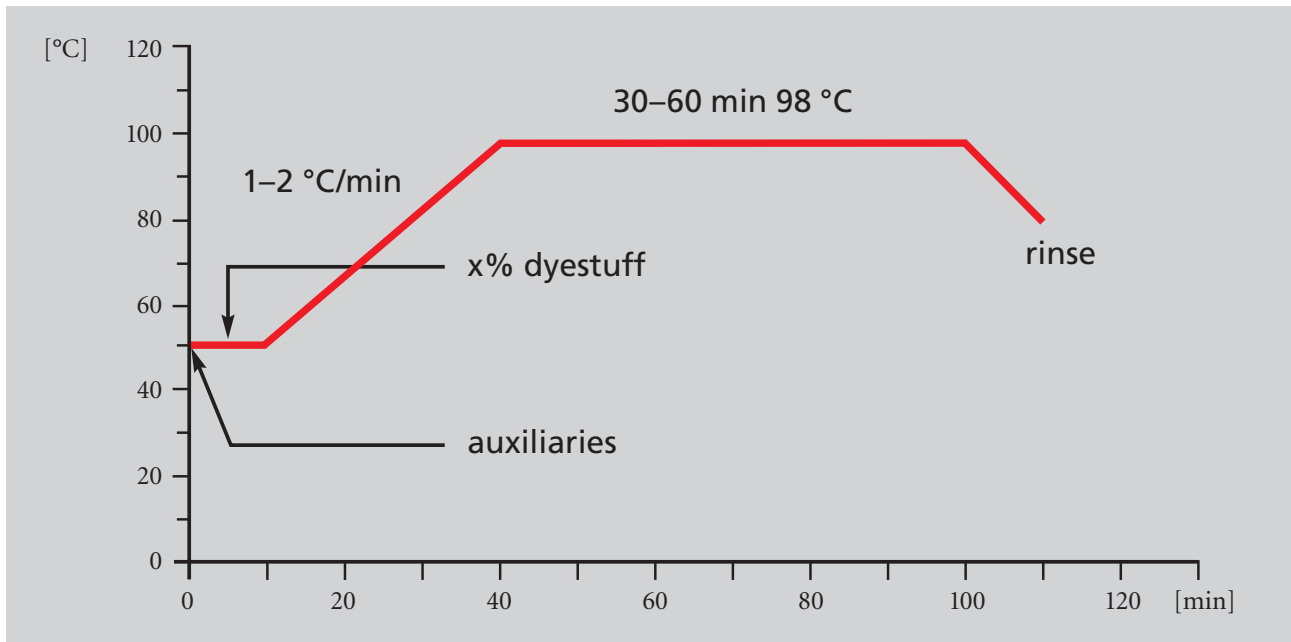
For untreated wool

Trichromatic combination

- Supralan Yellow C-2R
- Supralan Red C-G
- Supralan Grey C-G

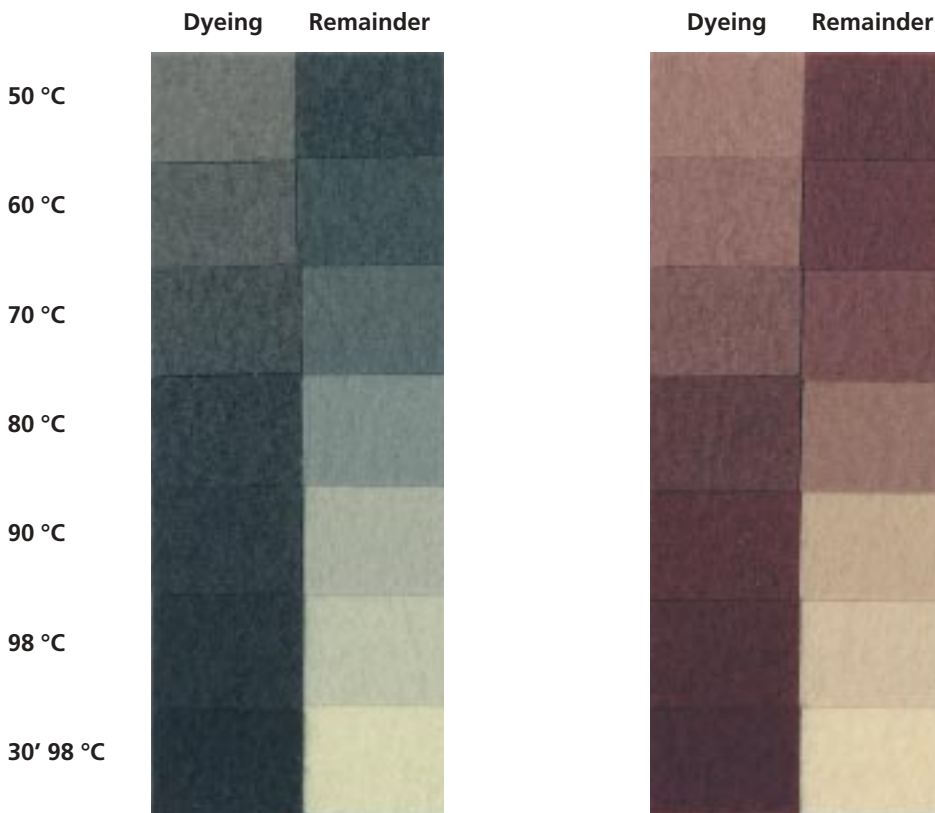
Auxiliaries

- 1–2 g/l sodium sulphate unhyd.
- 0.5–1% Avolan S
- pH 4.5–5 set with acetic acid 60%



Combination behaviour

Supralan dyes are readily combinable with each other and have high fastness properties. They can be used to dye loose stock, tops, yarn and piece goods with minimum damage to the fibre. And high bath exhaustion means that Supralan dyes meet today's requirements for economical and ecological processes.



Time/temperature step test (Supralan trichromatic combination)

Levelling

The dyes in the new Supralan range have been specially selected to ensure good levelling of differences in the affinity of wool, from the roots to the tips.



Supralan®

		Yellow 4GL	Yellow C-2R	Orange S-RL	Red GWN	Red C-G
Wool, untreated		1/3 S.D.				
		1/1 S.D.				
1/3 S.D.	% dye	0.3	0.57	0.47	0.4	0.43
1/1 S.D.		0.9	1.7	1.4	1.2	1.3
Solubility [g/l]	90 °C	80	70	80	80	80
Stability of solution [g/l]	90 °C / 25 °C	40	40	60	30	40
Fastness to light (xenon arc) ISO 105-B02	1/12 S.D.	5-6	5-6	5	3	4-5
	1/3 S.D.	5-6	6	6	4	5
	1/1 S.D.	6	6-7	6-7	4	5-6
	2/1 S.D.	6	7	7	5	6
Fastness to water (severe) ISO 105-E01	F	5	4-5	5	5	5
	WO	4-5	5	5	5	5
	CO	5	5	5	5	5
Fastness to perspiration (acid) ISO 105-E04	F	4-5	5	4-5	4-5	5
	WO	5	4-5	4-5	5	5
	CO	5	4-5	4-5	5	4-5
Fastness to perspiration (alkaline) ISO 105-E04	F	4-5	5	4-5	4-5	4-5
	WO	4-5	4-5	4-5	4-5	4-5
	CO	5	4	4-5	4-5	5
Fastness to washing 50 °C ISO 105-C02	F	4-5	4-5	4-5	4-5	4-5
	WO	5	5	5	4-5	5
	CO	5	5	5	5	4-5
Fastness to washing 60 °C ISO 105-C03	F	4-5	4-5	3-4	4	4-5
	WO	4-5	4-5	4-5	4-5	4
	CO	4-5	5	5	4-5	4-5
Fastness to laundering 50 °C ISO 105-C06 B2 *	F	4-5	5	4	4-5	4-5
	WO	5	5	5	4-5	4-5
	PA	5	4-5	4-5	5	4
	CO	5	5	5	4-5	4-5
Fastness to milling, alkaline (severe) ISO 105-E12	F	4	4-5	4	4	4-5
	WO	4	4-5	3	4-5	4
	CO	4-5	5	5	5	4-5
Fastness to hot water 70 °C ISO 105-E08	F	4-5	5	4-5	4	5
	WO	4-5	4-5	4-5	4-5	4-5
	CO	5	5	4-5	5	4-5
Fastness to carbonising (neutralised) ISO 105-X02	F	4-5	4-5	4-5	4-5	4-5
Fastness to decatizing (severe) ISO 105-E10	F	4-5	4-5	4-5	4	4-5
Fastness to rubbing ISO 105-X12	dry	4-5	5	5	4-5	4-5
	wet	4-5	4-5	4	4	4

F = Change of shade WO = Staining of wool CO = Staining of cotton PA = Staining of polyamide * Tested on multi-fibre fabric

Red S-RL	Violet RWN	Blue GLW	Blue 2R	Green BW	Green S-GLN	Dark Blue S-G	Navy Blue S-RL	Grey C-G	Grey S-GL	Black S-B
0.4 1.2	0.47 1.4	0.67 2.0	0.5 1.5	0.43 1.3	0.4 1.2	0.27 0.8	– 3	0.23 0.7	0.23 0.7	– 4.5
80 80	90 40	50 50	50 40	30 10	40 40	80 30	70 50	70 50	100 100	60 40
4 5 6 6-7	5 5-6 6 6 6-7	5-6 6 6 6-7	5 5-6 6 6	5-6 6 6-7 6-7	4-5 5-6 5-6 6	4 5 5-6 6-7	– – 7 –	4-5 5 5-6 6	4-5 5-6 6 6-7	– – 7 –
5 5 5	4-5 5 5	5 5 5	4-5 4-5 4-5	4-5 4-5 5	5 5 5	4-5 4-5 5	4-5 5 5	4-5 5 5	4-5 5 5	5 4-5 5
5 4-5 4-5	4-5 5 5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 5	4-5 4-5 5	4-5 4-5 5	5 5 5	4-5 5 5	4 5 5	4-5 5 5
4-5 5 5	4-5 4-5 5	4 4 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 5	4-5 4-5 4-5	4-5 5 5	4-5 4-5 4-5	4-5 5 5	4-5 4-5 4-5
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4 4-5 5	3-4 4-5 5	4 4-5 5	4 4 4-5	4 4-5 5	3-4B 4-5 4-5	4 4 5	4-5 3-4 5	4 4-5 5	4GD 4-5 5	4-5 3 4-5
4-5 4-5 4 4-5	5 5 5 5	5 5 5 5	5 4-5 4-5 5	5 4-5 4-5 4-5	4-5 5 4-5 5	4 4-5 3-4 5	4-5 4-5 3 5	4-5 4-5 3-4 5	4-5 5 4 5	4-5 4-5 3 4-5
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4-5	4-5	4	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5
4-5 4	4-5 3-4	4-5 4	4-5 3-4	4-5 4	5 4	4-5 4	4-5 3	4-5 4	4-5 3-4	4-5 3

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



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