

Segasol

Dyes on wool



- Exhibit wet fastness
- Range of brilliant shades
- Metal free

SÖZAL

													
1/1 S/D		1.40%	1.40%	1.60%	1.20%	1.80%	1.00%	0.90%	1.90%	1.50%	1.50%	4.00%	4.00%
Segasol		Yellow 4G	Orange RG	Scarlet 3G	Red 6G	Red GN	Red B	Red 5B	Blue 3RN	Blue 3G	T. Blue 5G	Black 3G	Deep Black CER 150%
Solubility at 90°C (g/l)		100	40	100	50	40	100	40	100	50	100	100	100
Fastness to Washing ISO-105-C03	CH	4-5	3-4	4-5	4	4	4-5	4	4-5	4	4	4	4
	C	5	4-5	5	4-5	4-5	3-4	4-5	5	4-5	2-3	3-4	4-5
	N	5	4	5	4	4	5	4	5	5	4-5	4-5	4-5
	P	5	4-5	5	4-5	4-5	5	4-5	5	5	4-5	5	4-5
	W	5	4	5	4	4	4-5	4	5	5	4-5	3	4-5
Fastness to Dry Cleaning ISO-105-D01	CH	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
	S.S	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Fastness to Perspiration ISO-105-C04 (Acidic)	CH	4	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-4	4-5	4-5
	C	5	4-5	5	4-5	4-5	4-5	4	5	5	4-5	4	4
	N	5	4	5	4-5	4-5	4	4-5	5	5	5	4-5	4-5
	P	5	4-5	5	4-5	4-5	5	4-5	5	5	5	5	4-5
	W	5	4-5	5	4-5	4-5	4-5	4-5	5	5	4	3	4-5
Fastness to Perspiration ISO-105-C04 (Alkaline)	CH	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-4	4-5	4-5
	C	5	4-5	4	4-5	4-5	3	4	4	4-5	2	2-3	4
	N	5	4	4-5	4-5	4-5	4	4-5	4-5	4	3-4	3-4	2-3
	P	5	4	5	4-5	4-5	5	4-5	5	5	4	3-4	4
	W	5	4-5	4-5	4-5	4-5	4	4-5	4	4	3	2	4
Fastness to Light ISO-105-B02		7	5	6	6	5-6	7	5	7	6	6	6	4
Fastness to Water ISO-105-E01	CH	4-5	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
	C	5	5	5	4-5	4-5	5	4-5	5	5	5	5	4-5
	N	5	4-5	5	4-5	4-5	5	4-5	5	5	5	5	4
	P	5	4-5	5	4-5	4-5	5	4-5	5	5	5	5	4-5
	W	5	4-5	5	4-5	4-5	5	4-5	5	5	5	5	4-5
Fastness to Dry Potting ISO-105-E09	CH	4-5	4-5	4-5	4	4	4-5	4	4-5	4-5	4-5	4-5	4-5
	C	5	4-5	5	4-5	3-4	5	3	5	5	5	5	5
	W	5	5	5	3	4-5	3-4	4	4	4-5	4	2	3
Fastness to Rubbing ISO-105-12	Dry	5	5	5	5	4-5	5	5	5	5	4-5	4-5	4-5
	Wet	5	5	5	4-5	4-5	5	4	5	5	4-5	4-5	4-5

CH = Change of Shade, C = Staining on Cotton, N = Staining on Nylon

													
1/1 S/D		1.70%	1.70%	1.90%	3.00%	4.00%	3.00%	4.00%					
Segasol		Yellow CE	Red CE	Blue CE	Navy CE	Black CE	N. Blue R	Black DM					
Solubility at 90°C (g/l)		40	100	40	100	100	100	100					
Fastness to Washing ISO-105-C03	CH	4-5	4	4-5	4	4	4	4					
	C	5	5	5	3-4	3-4	3-4	3-4					
	N	5	5	5	5	5	5	4-5					
	P	5	5	5	5	5	5	5					
	W	5	5	5	3-5	3-4	3-4	3					
Fastness to Dry Cleaning ISO-105-D01	CH	4-5	4-5	4-5	4-5	4-5	4-5	4-5					
	S.S	4-5	4-5	4-5	4-5	4-5	4-5	4-5					
Fastness to Perspiration ISO-105-C04 (Acidic)	CH	4-5	4-5	4-5	4-5	4-5	4-5	4-5					
	C	5	5	5	4-5	4	4	4					
	N	5	5	5	4-5	4-5	4-5	4-5					
	P	5	5	5	5	5	5	5					
	W	5	4-5	5	3-4	3	3-4	3					
Fastness to Perspiration ISO-105-C04 (Alkaline)	CH	4-5	4-5	4-5	4-5	4-5	4-5	4-5					
	C	5	5	5	2-3	2-3	2-3	2-3					
	N	5	5	5	3-4	3-4	3-4	3-4					
	P	5	5	5	4	3-4	4	3-4					
	W	5	5	5	2	2	2	2					
Fastness to Light ISO-105-B02		7	5	5	6	6	6	6					
Fastness to Water ISO-105-E01	CH	4-5	4-5	4-5	4-5	4-5	4-5	4-5					
	C	5	4-5	5	5	5	5	5					
	N	5	4-5	5	5	5	5	5					
	P	5	4-5	5	5	5	5	5					
	W	5	4-5	5	5	5	5	5					
Fastness to Dry Potting ISO-105-E09	CH	4-5	5	4-5	4-5	4-5	4-5	4-5					
	C	5	5	5	5	5	5	5					
	W	5	4-5	4	2-3	2	2-3	2					
Fastness to Rubbing ISO-105-12	Dry	5	4-5	4-5	4	4-5	4	4-5					
	Wet	5	4-5	4-5	4	4-5	4	4-5					

P = Staining on Polyester, W = Staining on Wool, S.S. = Staining on Solvent

Combination shades with Segasol Trichromies (dyes) on wool



Segasol Yellow4G 0.10%
Segasol Red6G 0.05%
Segasol Blue3G 0.025%



Segasol Yellow4G 0.32%
Segasol Scarlet3G 0.18%
Segasol Blue3G 0.10%



Segasol Yellow4G 0.18%
Segasol Scarlet3G 0.13%
Segasol Blue3G 0.10%



Segasol Yellow4G 1.80%
Segasol Scarlet3G 0.56%
Segasol Blue3G 0.36%



Segasol Yellow4G 1.80%
Segasol Red6G 0.56%
Segasol Blue3G 0.36%



Segasol Yellow4G 0.10%
Segasol Red6G 0.10%
Segasol Blue3G 0.10%



Segasol Yellow4G 0.50%
Segasol Red6G 0.50%
Segasol Blue3G 0.50%



Segasol Yellow4G 0.10%
Segasol Red6G 0.22%
Segasol Blue3G 0.50%



Segasol Yellow4G 0.25%
Segasol Red6G 0.80%
Segasol Blue3G 2.00%



Segasol Yellow CE 0.10%
Segasol Red CE 0.10%
Segasol Blue CE 0.10%



Segasol Yellow CE 0.50%
Segasol Red CE 0.50%
Segasol Blue CE 0.50%



Segasol Yellow CE 1.90%
Segasol Red CE 1.20%
Segasol Blue CE 1.10%



Segasol Yellow CE 0.25%
Segasol Red CE 1.75%
Segasol Blue CE 1.50%



Segasol Yellow4G 1.80%
Segasol Red6G 0.56%
Segasol Blue3G 0.36%



Segasol Yellow CE 1.10%
Segasol Red CE 0.12%
Segasol Blue CE 2.30%



Segasol Yellow CE 1.00%
Segasol Blue CE 3.00%



Segasol Yellow CE 0.50%
Segasol Red CE 0.55%
Segasol Blue CE 1.00%



Segasol Yellow CE 0.75%
Segasol Red CE 0.80%
Segasol Blue CE 1.50%

Segasol Dyes on Wool



Segasol Dyes

A new concept in wool coloration

Segasol dyes are modified reactive dyes specially suited for coloration of wool.

Covalent dye-fibre bonds produce dyeing of excellent wet fastness and the trichromatic system is specially suited for deep shades

Salient Features

- Excellent fastness properties
- Range of brilliant shades
- Metal free
- Eco-friendly
- Low effluent load
- Cost effective

Segasol dyes dye all kinds of wool - in loose stock, yarn, felt free super-wash wool and piece goods.

Dyeing wool with Segasol dyes

Dyeing of Segasol dyes on wool can be carried out by exhaust method in a weakly acidic bath: 4.5-5 pH for deep and 5.5-6 pH for pale shades.

Dyeing recipe

- | | |
|------|---|
| 1% | Segalevel SET (Levelling Agent) |
| X% | Acetic acid (pH 6 for pale and 4.5 for dark shades) |
| 3-4% | Sodium acetate/ammonium sulphate as buffer |

Start the bath with acetic acid (pH 4.5 to 6 depending on depth of shade)

- For better control of pH especially while dyeing deeper shades use of buffers, like - acetic acid/sodium acetate or acetic acid/ammonium sulphate, is recommended.
- Run the bath for ten minutes and then make an addition of Segasol dyes solution.
- Use of levelling auxiliaries of amphoteric nature promote dye penetration and surface levelness.
- It is important to hold the bath after dye exhaustion for complete fixation.

- Higher the bath temperature lower the hold time, e.g. at 85°C hold time 90 min. while at 105°C it can be 30 min.
- Deeper shades need hold time e.g. while 30 min. is sufficient for pale shades (0.5%), 90 min. hold time is recommended for deep shades (above 4%).
- For shades prone to un-leveling, an intermediate hold for 30 min. at 70°C is useful.
- Glauber's salt in the bath, up to 10%, promotes surface levelness by slowing down the rate of dye uptake.

After-treatment

An after treat preferably in a fresh bath with 1.5 gpl ammonia (pH 8-8.5) at 80-85°C improves the wet fastness of the shades significantly.

This is followed by thorough rinse and acid wash with 1% Formic acid / acetic acid.

Pre-treatment

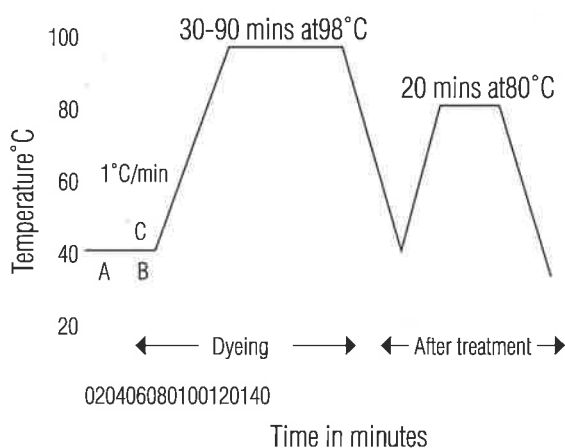
Bleaching of wool with hydrogen peroxide helps to produce brilliant shades with Segasol dyes.

Pretreat wool in a bath containing

- | | |
|---------|-------------------|
| 2 gpl | Hydrogen Peroxide |
| 0.5 gpl | Sodium Silicate |
| 1 gpl | Soda ash |

at 55°C/30 min. pH 8.5-9

Dyeing Cycle



A = Addn. of auxiliaries
B = pH adjustment
C = X% Segasol dyes

SÖZAL

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