

Technical Data Sheet

ALBEGAL® SET leveling agent

DYEING AUXILIARIES

USES

Dyeing wool 100% or in blends and silk by the LANASET® dyeing system.

The LANASET® dyeing system is made up of three complementary components:

ALBEGAL® SET/LANASET® dyes/pH 4.5–5 with ALBATEX® AB-45 or sodium acetate/acetic acid.

Characteristics	Benefits
 Product with dye and fiber affinity, developed specially for the LANASET[®] system. 	Very level reproducible dyeing.
Breaks down dye aggregations and speeds up dye diffusion.	Excellent dye distribution on the goods and improved penetration of the fibers, hence very good levelness.
 Promotes migration shade build-up and leveling power. 	Optimized fiber and surface levelness. Improved reproducibility.
Balanced retarding effect	Promotes even exhaustion of dyes in combinations. Allows LANASET® dyes to be safely mixed with each other.
Enhances bath exhaustion	 Enables pale and medium shades to be dyed in standing baths.
No detrimental interactions with the dye or deposits on the goods.	No impairment of fastness properties or handle. No fiber yellowing.
Low-foaming	No problems with foam on jet dyeing machines, hence more dependable cloth run.

PROPERTIES

	For further information on ecology/toxicology, see the relevant Safety Data Sheet.
Ecology/toxicology	The usual hygiene and safety rules for handling chemicals should be observed in storage, handling and use. The product must not be swallowed.
Compatibility	Can be used together with anionic, cationic and nonionic substances.
Storage stability	Stable for 1 year at 20°C in closed containers.
General stability	Stable in hard water and to acids, alkalis and electrolytes in the concentrations, usually encountered in textile processing.
Specific gravity at 20°C	About 1.0
pH of 5% solution	About 4
Physical form	Yellowish, brown, turbid, low-viscosity liquid
Ionic character	Amphoteric
Chemical constitution	Preparation based on partially modified nitrogenous, fatty and alcohol ethoxylates.

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APPLICATIONS

Dissolving/diluting

ALBEGAL[®] SET leveling agent for wool fibers is miscible in all proportions by pouring on cold or warm water. It can also be added undiluted to dyebaths.

Required amount

The amount of ALBEGAL SET is independent of shade depth.

Liquor ratios 8:1 to 25: 1–1.0% ALBEGAL® SET Liquor ratios above 25: 1–1.5% ALBEGAL® SET Piecegoods 2.0% ALBEGAL® SET Wool in blends 0.5–1% ALBEGAL® SET Polyamide 1% ALBEGAL® SET

Correction of faulty dyeing

Dyeings that have turned out too heavy or slightly unlevel, can be weakened or leveled by treating in a blank bath with:

2–3% ALBEGAL[®] SET

10% Glauber's salt anhyd

pH 6 with acetic acid 30 min at 98°C or 15 min at 103°C

Before re-dyeing, the bath is cooled to 60-65°C and the pH corrected to 5.

NOTES

An amount of 5–10% Glauber's salt anhyd in the dyebath supports the leveling action of ALBEGAL® SET leveling agent for wool fibers, particularly in yarn and piece dyeing. 3–5% ALBATEX® AB-45 is recommended for the adjustment of required pH of 4.5–5 for the dyeing of LANASET dyes on wool fibers.

1–2 g/l MIRALAN® Q is recommended to prevent felting and setting of wool during dyeing.

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