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Associazione Tessile e Salute  
Azienda associata

p.IVA 00736390964 C.F. 02639210158 c.c.i.a. Milano n. 927455 Codice ISS azienda 00736390964

## EGALTEX PLUS

**Egaltex Plus** carries out a dispersing action as a protecting and disgregating colloid, as a solubilizer of dyes into the state of affinity for fibre and as a levelling agent in the dyeing of cellulose fibre with Direct, Reactive, Vat and Sulphur dyes.

**Egaltex Plus** also acts in the first dyeing stages as a preparing agent; that is, it leads the colouring agent onto the fibre, and directs it, so as to distribute it as uniformly as possible, also in the irregular parts of goods and wrapped up items. Thanks to its excellent levelling power, **Egaltex Plus** is also employed in the re-levelling of dyeing with Vat or Sulphur dyes.

In the extreme case of dyeing with Reactive dyes, and in particular in combinations with Phtalocyaninic Turquoises, uniformity improves regardless of dye group, by jointly employing **Egaltex Plus**, especially on mercerized cellulose or cellulose treated with caustic soda. Lastly, it extends in time the stability of baths containing the Leuco of Vat and Sulphur dyes, which is very important, for instance for Jigger and Over-Flue dyes, in the Pad/Steam development and in overfull-related washing at the end of the dyeing process, where keeping a reduced state is essential for the successful outcome of the dyeing process itself.

Chemical features: mixture of sequestrants, anionic polymers derived from special heterocyclic and sulphonic compounds

Appearance: amber-coloured liquid

Ionic charge: anionic

Solubility: it is soluble in any portion with purified water

Compatibility: it is compatible with anionic and non-ionogenic surfactants

Stability: acid-, alkali- and electrolyte- proof in the usual employment concentrations in the textile field

Foaming power: under special conditions, it is possible to have a very limited production of foam

Retarding power: in the correct concentrations, it does not interfere with the tinctorial output of the colouring agent employed, with the exception of a few dyes



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(such as the 18 and 22 Vat Blues and Indigoids), where **Egaltex Plus** displays an extremely slight interference with the colour output.

Special Features: **Egaltex Plus** is preferable with scoured or bleached material, to avoid possible interferences with the substance that exist on cellulose fibres. Thanks to its features, the joint employment of a dispersing and sequestering agent is no longer necessary, except for deep hue dyes, because under those conditions low quantities of **Egaltex Plus** are used; in these cases, jointly employ Gamol Plus.

Employment amounts: these are inversely proportional to the concentration of the colouring agent, in order not to slow down too much the rise of the colouring agent onto the fibre, with dark shades, and to improve dispersion and distribution of the colouring agent with light tints.

**a)** Dyeing of hanks and wrapped up items: pretreat with 2-4-6% **Egaltex Plus**, for dark-medium and light hues respectively, for 10 minutes at 20°C; then add the dissolved or dispersed colouring agent and subsequently the chemical products required for the dye. In dyeing with Vat dyes, where possible, after caustic soda, the addition of 0.5-1 g/l of Egaltex P is always required, to further improve levelling.

**b)** In Jigger and Over-Flue dyeing, pretreat with 2-3-4% of **Egaltex Plus** (for dark-medium and light hues respectively) for 15 minutes; then pour the dissolved or dispersed dyes and treat for further 15 minutes. Lastly, pour the chemical products required for the dyeing and, with Vat dyes, where possible, after caustic soda, the addition of 0.5-1 g/l of Egaltex P is always required, to further improve levelling

**c)** In continuous and semi-continuous dyeing, include in the colour bath 2.5-4-5 g/l of **Egaltex Plus** (for dark-medium and light shades respectively) and then continue in line with the appropriate dyeing method.

Levelling of non-levelled dyeing: pretreat the material with 6-8% of **Egaltex Plus** + 10-15% of the initial recipe colouring agent, for 10-15 minutes at 20°C; then continue with the method required for the dye in question, by reaching the indicated temperature and treating for 1 hour. End the process as usual.

#### Summary of the Advantages Offered by **Egaltex Plus**

With Gammantrene and Sulphur dyes, it prolongs the "life" of the reduced bath, especially for the dyeing processes involving the presence of air, as in the case of Jigger, Over-Flue and Pad/Steam. Furthermore it keeps the bath reduced for a longer period of time, during overfull-related washing, an essential condition for the successful outcome of the dyeing process itself.



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- 2) It is a protecting colloid, as it prevents aggregations during dyeing with Vat and Sulphur dyes.
- 3) It improves bath solubility with water-soluble Direct, Reactive and Sulphur dyes.
- 4) It improves the dispersion of Vat and Sulphur dyes (the non-water-soluble ones).
- 5) It improves the solubility of dyes at the fibre-related state of affinity, thus making the blending uniform, and avoiding in this way undesirable stratifications.
- 6) It leads the dye onto the fibre and directs its distribution, thus preparing the fibre for dyeing.
- 7) It improves the covering of many irregularities in fibres and yarns.
- 8) It improves dye levelling. Even with Reactive dyes, excellent results are obtained, also on difficult materials, such as viscose and mercerized cotton.
- 9) It aids levelling and the correction of improperly levelled dyeing.
- 10) It reduces the "Dichroism" defect in reactive dyes with Yellow-Turquoise combinations.
- 11) It extends the life of padding cylinders employed for dyeing processes involving Reactive dyes, with the method providing for cold stop with sodium silicate.
- 12) It aids elimination from the fibre of hydrolyzed Reactive dyes.

#### Employment amounts for **Egaltex Plus**:

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Concentration of dyes	=	0.1-1%	1-3%	3-6%
a) Dyeing of wrapped items and hanks	=	6-5%	5-4%	4-2%
Addition of Gamol Plus	=	--	1%	1-2%
b) Correction of dyes not blending properly	=	from 8 to 6 % in all cases		
c) Jigger and Over-Flue dyes	=	4-3%	3%	2%
Addition of Gamol Plus	=	1-1.5%	1.5%	2%
d) Continuous dyeing	=	5-4%	4-3%	3-2.5%
Addition of Gamol Plus	=	1-1.5%	1.5-2%	2-2.5%



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Treat for 10 minutes at 20°C (with Jigger = 15 minutes) - Then add the dye and treat for further 5 minutes (for Jigger = 15 minutes). Lastly continue according to the selected method. In the event of continuous dyeing, **Egaltex Plus** and Gamol Plus have to be added to the colour bath.

Keywords: dispersant, colloid, protector, disintegrant, solubilizer, leveling, direct, reactive, vat, sulphur, anionic, retardant, dichroism, turquoise, dispersing

The above data are the result of accurate studies and/or of the experience acquired; however, they are to be taken as an indication and in any case with no guarantee on our side as far as employment is concerned. The data contained in this data sheet are not to be regarded as technical specifications. For information, please contact: **e-mail address** [info@gammacolorsrl.com](mailto:info@gammacolorsrl.com)