



Gammacolor s.r.l.
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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

GAMOL PLUS

Chemical nature: mixture of sequestering agents, anionic polymer and sulfonic derivative

pH: neutral

Ionicity: anionic

Appearance: amber colored liquid, pumpable

Specific density: 1:03 to 1:06

The Gamol Plus is an auxiliary that is used in many processes with different classes of dyes:

a) Vat Dyes-Gammanthren:

a-1) dispersant, it acts in particular on the unreduced-dye (pigment form) avoiding the oxidation and surface deposit of the dye on textile. Dose of use = 3%.

Dose for following soaping= 1.5%

It is fundamental especially in light shades, because the same dye contains little dispersant, and in intense tones to decrease the tendency to poor fastness to rubbing.

a-2) it acts on the protective colloid for leuco-dye form, avoiding the aggregation of the particles of color and at the same time improving the solubility and stability of the leuco form. Dose = 3%.

a-3) it facilitates the dispersion of the dye in water, particularly when treating large enough quantities. Normally the dye is poured, under stirring, in purified water at 40°C, containing part of the Gamol Plus. If total dose is 3%, it is placed the 2% dispersion in water, and the remaining 1% in the dye bath.

a-4) = sequestering agent: it has the power of chelating salts of alkaline earth metals and those metal content eg. in water, on the material and in chemical products.

a-5) solubilizing = it prevents and eliminates, the leuco-dye aggregates + peptic substances, solubilizing them, which are contained in a certain amount in specific types of cotton. For all the above properties, the Gamol Plus is ideal also in the chemical bath of the Pad-Steam. Dose= 4 g/L . Final soaping dose = 3 g/L . Gamol Plus is also suitable for dyeing and soaping in over- flue, jets and winch dyeing machine, because practically does not form foam.

b) GAMMAZOL-GAMMAFIX and SUPERFIX:

b-1) it facilitates the dissolution of the dye in water, particularly when treating large quantities. Normally the dye is poured, under stirring, in purified water at 50°C, containing part of the Gamol Plus dose. If eg. The total dose is 3% Gamol Plus, 2% it's placed into the dissolution bath, and the remaining 1% in the dye bath.



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b-2) sequestering : it has the power of chelating salts of alkaline earth metals and other metals (without affecting the metals contained in dyes) present in the water, on the material and in chemicals: dose 3%

b-3) solubilizing, in particular with the phthalocyanine derivative, it avoids the precipitation of the dye in an alkaline environment, in the form of micro agglomerated. Dose 3%. It also increases the stability of the chemical bath -dye in the pad-batch procedure: dose 3-4 g/L.

b-4) protector, it prolongs the "life" of rubber coatings of padding cylinders in pad-batch with caustic soda and sodium silicate. Practically you can adjust the tires less frequently than usual. Dose 3-4 g/L.

b-5) cleaning, it facilitates the elimination of dyes already hydrolyzed, increasing the strength of dyes. For the same reason it is recommended in soapings. Dose 3%. For soaping 2-3 g/L.

c) pre-reduced and normal sulfur dyes and Tinagam dyes

c-1) it facilitates the dissolution in water of the dye powder. Normally the prescribed amount of Gamol Plus is used for impaste the dye, then boiling water is poured, while stirring, on the impaste and then it is possible to proceed to the following reduction.

c-2) protective colloid and dispersing, it avoids the surface accumulation of the dye, which causes the defect said "bronzing", which would be the cause of poor fastness to rubbing: dose 3%.

c-3) cleaning, during oxidation it facilitates the detachment of the particles of unfixed dye. Dose 3%.

d) direct dyes: DIRETTI and DIRETTI LUCE

d- 1) it facilitates the solubilization of dyes; dose 3%.

d- 2) sequestering, it acts on chemicals, water and the textile, and not on dyes. Dose 3%.

d- 3) anti accumulation, it avoids the excessive surface accumulation of the dye on the fiber. dose 3%.

e) disperse dyes: DISPERSI

e-1) dispersant in the dyeing bath and during stripping: dose 3%

e-2) sequestering, for dyes sensitive to metals, such as pink and red ones: dose 3%



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e-3) pseudo emulsifier tends to avoid deposition of extraneous substances on the fiber (spinning oils etc.) and it helps to keep oligomers in suspension: dose 3%.

e-4) adding the dye while stirring in purified water at 40°C containing at least half of the required dose of Gamol Plus. dose: 3%.

Keywords: dispersant, sequestrant, colloid, solubilizer, protector

The data contained in this circular are based on our current knowledge and experience .These data do not exempt the user from conducting his tests, to adapt the product to their processing requirements.

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