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Associazione Tessile e Salute
Azienda associata

ACQUAMOLLAN B liq.

Chemical characteristics:	sequestering agent based on ethylenediamine tetraacetic acid
Appearance:	light yellow liquid
pH sol. 1%:	approx. 11-12
Solubility:	mixable in water in all proportions
Active content:	approx. 40% of tetrasodium salt

Properties:

the Acquamollan B liq. it is a sequestering agent for alkaline and alkaline-earth and heavy metal ions, with which it forms soluble complexes in water. The complexation reaction is immediate and independent of the temperature, it depends on the pH of the solution. The complexes are more stable at alkaline pH, where the precipitation of the hydroxides or carbonates of the metals, the encrustations or the metal soaps can no longer settle.

One gram of Acquamollan B liq. based on the pH of the solution, it has the following binding power:

pH 9	175 mg of calcium carbonate
pH 11	125 mg ""
from 5 to 30 g / l of NaOH	125 mg ""

Therefore, to bind the calcareous salts it is necessary,

for 1 ° d at pH 9	0.10 g / l of Acquamollan B liq
or with 20 g / l NaOH	0.14 g / l of Acquamollan B liq.

Acquamollan B liq. it also forms heavy metal ions of water soluble complexes.

1.4 grams of the product within the optimal pH range, sequesters the following quantities of heavy metals:

METAL	OPTIMAL pH	QUANTITY LINKED
Iron	1-6	125 mg Fe 2+
Manganese	5-9	122 mg Mn 2+
Copper	1.5-13	142 mg Cu 2+
Lead	3-13.5	463 mg Pb 2+



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Sistema di gestione qualità
certificato secondo la UNI EN ISO
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Important! below or above the above pH ranges, the complexing power decreases strongly.

Use :

many finishing processes are disturbed or inhibited by the presence of calcareous salts, which can reach the treatment baths not only through industrial water, but also with textile material. Raw cotton is a good example.

Below are some of the orientation recipes for the application of the Acquamolla B liq. :

desizing:

2-4 g / l Acquamollan B liq. in addition to the recipe. Keep in mind that the product slows down the enzymatic degradation of starch, so it takes slightly longer.

scouring:

1-3 g / l Acquamollan B liq. in addition to the recipe

mercerization:

1-2 g / l Acquamollan B liq. in addition to the recipe, it favors the penetration of the alkaline solution in the fiber and the subsequent washing.

Chlorite bleaching:

1-4 g / l Acquamollan B liq. improves cotton hand and hydrophilia. Equal dose for reducing bleaching. Do not use the Acquamollan B liq. in bleaching with hypochlorite or with hydrogen peroxide as it lowers the stabilization of the bleaching bath.

Dyeing:

the Acquamollan B liq. eliminates calcareous salts of cotton and treatment baths. Precipitation of dyes due to calcium and magnesium salts is avoided. Often more luminescent colors are obtained on the cotton washed with Acquamollan B liq. . Furthermore, there is no deterioration in the fastness and uniformity of dyes due to calcareous salts. No metallic effect occurs in the dye with sulfur dyes. Do not use the product with metallic complex dyes as it could extract it by varying its color and strength.

Warehousing: the Acquamollan B liq. it can be stored for 2 years

The data reported are the result of accurate studies and / or experience, however, must be considered indicative and in any case without warranty on our part for use. The data contained in this sheet are not to be considered specific.

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