

NSD BUFF

Buffering agent and pH corrector

COMPOSITION..... Mixture of poly-carboxylic organic acids

TYPICAL DATA

Appearance Limpid, colorless liquid
Density at 20°C 1.21 g/ml
Ionic charge Absent pH
10 g/l solution 2.2

PHYSICAL – CHEMICAL PROPERTIES

Appearance to aqueous solutions limpid
Stability to hard water very good also at 50°dH
Compatibility compatible with any products category
Storage stability very good in normal room conditions for 12 months. At temperatures lower than 0°C may crystallize, without however altering.

NSD BUFF is employed as pH corrector and buffering agent during various phases of the textile process.

NSD BUFF has dispersing-solubilizing and sequestering properties. It is very efficient during preliminary treatment of cellulose materials either in eliminating or in reducing of the hardness and of heavy metals ions.

Thanks to its high reactivity, NSD BUFF is particularly suitable during the neutralization phases of those articles dyed with reactive dyestuffs, vat or sulphur, which at the end of soaping process still present some quantity of alkalis, between the interlacing threads and the yarn core.

NSD BUFF, as opposite to the neutralizing agents, as a formic, acetic and chloridric acid is odorless and is not volatile; practically the whole product added to the application bath is being used.

The neutralization salts formed with the employ of NSD BUFF present a light acidity and if properly dosed, it can be obtained items with pH values on the aqueous solution, between 6 and 7,5 as required by some international Organizations like Eco-Label or Oeko-Tex. Such values cannot be obtained by employing formic or acetic acid.

NSD BUFF can be employed in enzymatic treatments either with alpha-amylase or with acid or neutral cellulase on ready garments.

NSD BUFF, thanks to its high compatibility, can be employed furthermore as an acidifying agent in softening performed with discontinuous equipment (winches, over-flow, jet, jigger, tumblers etc.) and with continuous equipment (finishing of fabrics for shirting, denim etc.).

Preparation of solutions

NSD BUFF can be dosed directly in the application bath also by automatic systems. During handling be careful to protect the eyes, the hands and the skin from direct contacts. Refer also to the Safety Data Sheet.

AMOUNTS TO BE USED

Amounts may vary according to the production required and to the equipment employed; maximum 10 g/l for difficult operations.

Here below are some indicative recipes:

- a) Acid demineralization treatment on cotton cones and hanks or on cotton knitted fabrics:

0,5 – 2 cc/l NSD BUFF

0.5 – 1 cc/l Idrosolvan E-CO

- bath ratio = 1:10
- temperature = 60 – 65°C
- treatment time = 15 – 20'
- bath discharge
- hot and cold rinse

- b) Industrial softening and neutralization process on continuous equipment, for 100% cotton gabardine fabric (400 g/m²) indigo dyed.

40 – 60 gr/l Alfacer MTB

2 – 4 gr/l NSD BUFF

- room temperature wetting
- drying on cylinders; residual humidity of 12 – 15%
- Sanford proceeding
- final cycle on palmer

Please stir well before use.

Keep @ temperature max. 40°C.

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