

KAPPASALT PK 3

Buffer and stabilizer with anticorrosive for bleaching with sodium chlorite

Chemical composition	mixture of inorganic salts
Appearance	white powder
pH-value 20 °C	approx. 10.0 (1 %)
Bulk weight (g/l)	ca. 700
Ionic charge	anionic

Function

KAPPASALT PK 3 has buffering, stabilizing and anticorrosive properties.

In chlorite bleaching, the alkaline reactive sodium chlorite (NaClO2) has to be activated with acid (formic or acetic acid) and temperature to develop its complete bleaching effect. The actual bleaching agent is the chlorous acid HClO2 from which active oxygen is released. At the same time it is necessary to carry out chlorite bleaching in a constant pHrange of 3.5 – 4.0 during the entire bleaching time to reduce the formation of chlorine dioxide (ClO2) which is toxic, unpleasantly odorous, highly corrosive and without contribution to the bleaching process. Chlorine dioxide is formed in the strongly acid range.

KAPPASALT PK 3 buffers the pH adjusted with organic acid, as it counteracts against further decrease and thus regulates or stabilizes the decomposition time of the sodium chlorite. Furthermore, KAPPASALT PK 3 contains active oxygen compounds, which again reduce the intermediately formed chlorine dioxide to the chlorite anion.

KAPPASALT PK 3 also protects stainless steel machinery against corrosion.

Application

Sodium chlorite is a fibre-protecting, oxidative bleaching agent with selective effect that usually is applied at temperatures of 70 - 95 °C and a pH-value of 3.5 - 4.0 in a long liquor.

The chlorite bleaching is therefore especially suitable for alkali-sensitive fibres (viscose, etc.), for linen (due to the long bleaching period) or for synthetic fibres difficult to bleach (polyester, polyamide, polyacrylonnitrile).

Recommended application level:

• 1.5 - 3.0 g /I KAPPASALT PK 3

The bath is prepared with sodium chlorite and KAPPASALT PK 3. Then the pH is adjusted with formic or acetic acid.

Dilution instruction

KAPPASALT PK 3 can be diluted in cold or warm water.

Storage

KAPPASALT PK 3 remains stable for at least 1 year if stored properly and cool in a tightly closed original container.

Contact

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When using the products, the precautionary measures applicable to the handling of chemicals must be observed. For storage and hazard information as well as safety advice, please refer to the relevant safety data sheets. Application solutions and product residues must be disposed of in accordance with official regulations. The listed instructions correspond to our previous experience. However, in view of the different operating conditions, only non-binding information and advice can be given. Therefore, we cannot accept any liability whatsoever, including liability for claims by third parties. Errors, changes and misprints excepted. Non-binding product information, print date Feb 14, 2022, not subject to systematic change.

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