KAPP-CHEMIE
TISSUE TEXTIL
SERVICES

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

Contact

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Function

KAPPASALT PK 3 has buffering, stabilizing and anticorrosive properties.

In chlorite bleaching, the alkaline reactive sodium chlorite ($NaClO_2$) 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 $HClO_2$ from which active oxygen is released. At the same time it is necessary to carry out chlorite bleaching in a constant pH-range of 3.5 – 4.0 during the entire bleaching time to reduce the formation of chlorine dioxide (ClO_2) 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 /l 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.

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