KAPPATEX S 50
Highly effective reducing agent

CHEMICAL-PHYSICAL DATA

- Chemical composition: derivative of sulphinic acid
- Appearance: white, crystalline powder
- pH-value 20 °C (1 %): approx. 4.5
- Bulk weight 20 °C (g/l): approx. 750
- Ionic charge: anionic

FUNCTION

KAPPATEX S 50 is a very stable, highly effective, odourless reducing agent. Compared to hydrosulphite, KAPPATEX S 50 develops its full reducing effect only at temperatures above 70 °C and in the presence of alkalis (this may be proved with vat paper).

Solutions of KAPPATEX S 50 free of alkali are almost stable for up to 6 hours at room temperature. Under optimum conditions, KAPPATEX S 50 is a strong reducing agent and at least 3 times more effective than hydrosulphite.

APPLICATION

Reductive final or intermediate cleaning of disperse dyeing or printings on polyester or polyester/cotton

Cross winder:

- 0.5 – 1.0 g/l KAPPATEX S 50
- 2.0 – 4.0 ml/l NaOH 38 °Bé
- 1.0 – 2.0 ml/l wetting agent/detergent

- liquor ratio: 10:1 to 15:1
- treatment time: 20 – 30 minutes
- temperature: 70 – 95 °C

Dyed or printed fabric on continuous washing line:

- 2.0 – 3.0 g/l KAPPATEX S 50
- 5.0 – 7.0 ml/l NaOH 38 °Bé
- 0.3 – 0.5 ml/l wetting agent/detergent

- temperature: 80 – 95 °C
- reaction time: 15 – 80 seconds, depending on depth of shade

Stripping of defective dyeings

Due to the multitude of dyestuffs, there is no universal formulation (see recommendation of dyestuff producers). The amount of sodium dithionite is replaced by approx. 1/3 of KAPPATEX S 50. Preliminary tests are necessary.

- 2.0 – 3.0 g/l KAPPATEX S 50
- 8.0 – 15.0 ml/l NaOH 38 °Bé

- liquor ratio: 10:1 to 15:1
- treatment time: 20 – 60 minutes
- temperature: boiling temperature

Bleaching of polyamide

- 0.5 % (referring to fabric) KAPPATEX S 50

- treatment time: 30 minutes
- temperature: 90 °C
Cleaning of dyeing units

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Ingredient</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 – 2.0 g/l</td>
<td>KAPPATEX S 50</td>
</tr>
<tr>
<td>5.0 ml/l</td>
<td>NaOH 38 °Bé</td>
</tr>
<tr>
<td>1.0 ml/l</td>
<td>KAPPACOM A 11</td>
</tr>
<tr>
<td>1.0 ml/l</td>
<td>wetting agent/detergent</td>
</tr>
</tbody>
</table>

depending on soiling

treatment time: 10 – 60 minutes

temperature: boiling temperature

Further applications

KAPPATEX S 50 is an effective reducing agent for dyeing cotton or cotton blends with sulphur dyestuffs.
Furthermore, KAPPATEX S 50 can be used instead of sodium dithionite when dyeing with vat dyes according to the pad-steam-process. However, this can cause hue errors, thus making it necessary to correct the dye formulations.

Regarding the application of the additionally mentioned products, please note the corresponding technical data sheets.

DILUTION INSTRUCTION

Approx. 25 g/l of KAPPATEX S 50 can be dissolved in water of 20 °C.

In the strongly caustic alkaline range up to 100 g/l of KAPPATEX S 50 may be dissolved at 20 °C. However, these alkaline solutions are comparatively unstable.

Stock solutions of KAPPATEX S 50 should be prepared with cold water.

Caustic soda should only be added shortly before use.

STORAGE

KAPPATEX S 50 remains stable for at least 6 months if stored cool and dry in a tightly closed container.

Do not store above 25 °C and keep away from oxidants, metal salts and alkalis.