KAPPASOFT NWS
Nonionic softener

CHEMICAL-PHYSICAL DATA
Chemical composition: preparation of fatty acid derivative with polyethylene wax and polysiloxane
Appearance: white-beige emulsion
pH-value 20 °C (product): 4.5 – 7.5
Density 20 °C (g/ml): approx. 1.0
Ionic charge: nonionic

FUNCTION
KAPPASOFT NWS is suitable for all types of fibres.
KAPPASOFT NWS
- imparts softness and a highly smooth surface.
- shows excellent hydrophilic properties.
- improves the sewability.
- does not cause yellowing of the fibre material even at temperatures up to 180 °C.
- does not cause yellowing during storage.
- can be used in resin finishing liquors.

APPLICATION
KAPPASOFT NWS is suitable for exhaustion as well as for padding processes.
Recommended application levels:

Exhausting process

<table>
<thead>
<tr>
<th>1.0 – 4.0 % KAPPASOFT NWS</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH-value: 5.0 – 6.0</td>
</tr>
<tr>
<td>Liquor temperature: 40 °C maximum</td>
</tr>
<tr>
<td>Treatment time: 20 – 30 minutes</td>
</tr>
</tbody>
</table>

Padding process

<table>
<thead>
<tr>
<th>5.0 – 20.0 g/l KAPPASOFT NWS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 – 1.0 g/l acetic acid 60 %</td>
</tr>
<tr>
<td>pH-value: 5.0 – 6.0</td>
</tr>
<tr>
<td>Liquor temperature: 40 °C maximum</td>
</tr>
<tr>
<td>Drying: 100 – 170 °C</td>
</tr>
</tbody>
</table>

DILUTION INSTRUCTION
KAPPASOFT NWS can be emulsified with cold water at any ratio.

STORAGE
KAPPASOFT NWS remains stable for at least 1 year when stored properly and at room temperature in a tightly closed container.
Protect against frost!