KAPPASTAT AQ
Antistatic finishing agent for synthetic fibres

CHEMICAL-PHYSICAL DATA
Chemical composition: quaternary ammonium compound
Appearance: clear, pale yellow liquid
pH-value 20 °C (product): approx. 5
Density 20 °C (g/ml): 1.15
Ionic charge: weakly cationic
Viscosity (Haake, 20 °C, mPa.s): approx. 30

FUNCTION
KAPPASTAT AQ is an antistatic finishing agent for synthetic fibres. The product does not cause yellowing of the fibre at elevated drying temperatures or if high concentrations are applied.
KAPPASTAT AQ has no significant impact on handle. The product can be used in water or oil repellent finishing liquors and coating pastes.
Since KAPPASTAT AQ is water-soluble and not fixed on the substrate, the antistatic effect is not permanent.

APPLICATION
The exact application levels depend on the fabric and should be determined in pre-trials. The liquor stability is at pH 3 – 10.

Padding process
Finishing of polyester:

<table>
<thead>
<tr>
<th></th>
<th>KAPPASTAT AQ</th>
<th>acetic acid 60 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 – 30 g/l</td>
<td>1 g/l</td>
<td></td>
</tr>
</tbody>
</table>

Drying at 120 – 140 °C
Thermofixing at 170 – 190 °C

Finishing of polyester (water and oil repellent finishing with antistatic effect):

<table>
<thead>
<tr>
<th></th>
<th>KAPPASTAT AQ</th>
<th>KAPPAPHOB OC 620</th>
<th>acetic acid 60 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 – 40 g/l</td>
<td>1 g/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 – 60 g/l</td>
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</tbody>
</table>

Drying at 170 °C, 40 – 60 seconds

Finishing of polyacrylonitrile:

<table>
<thead>
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<th>acetic acid 60 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 – 40 g/l</td>
<td>1 g/l</td>
<td></td>
</tr>
</tbody>
</table>

Drying at 120 – 170 °C

Exhaustion process

<table>
<thead>
<tr>
<th></th>
<th>KAPPASTAT AQ</th>
<th>acetic acid 60 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 3 %</td>
<td>1 g/l</td>
<td></td>
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</tbody>
</table>
Spray application
Weko rotor spray unit

| 30 – 90 g/l | KAPPASTAT AQ |

Drying at 120 – 170 °C

It is important to ensure good ventilation of the room during spray application to prevent aerosol particles released during spraying spreading through the workplace.

DILUTION INSTRUCTION
KAPPASTAT AQ can be easily diluted with cold or warm water at any ratio.

STORAGE
KAPPASTAT AQ remains stable for at least 1 year if stored properly in a tightly closed container.

Do not expose to frost!