KLEENOX KNITZ LIQUID

A versatile high concentrate low foaming wetting and scouring agent suitable for discontinuous and continuous bleaching operations

**CONSTITUTION**
Blend of nonionic surfactants

**APPEARANCE**
Clear viscous liquid

**IONICITY**
Nonionic

**MISCIBILITY**
Miscible in water

**COMPATIBILITY**
Compatible with mild alkali, acid, anionics & nonionics. Incompatible with hard water and high TDS

**HIGHLIGHTS**
- High efficacy at lower dosages
- APEO free
- Excellent oil and wax emulsifying properties
- High wetting action coupled with detergent properties
- Suitable in enzymatic desizing
- Suitable for jet, soft flows and drum washing machines, CBR's as a scouring and wetting agent

**APPLICATION**

A good wetting agents/detergents used in the pretreatment should have good emulsifying properties to ensure the removal of oils and fats from the textile material. The emulsifying effect of the auxiliary is essential for removing knitting oils and spin finishes from the fabric. Non-foaming wetting agents / detergents are necessary for bleaching in machines with a high liquor turbulence, e.g. jet dyeing machines. **Kleenox Knitz Liquid** removes size degradation products and emulsifies oils and fats. It is a non foaming product hence suitable for high turbulence machines such as JET, soft flow, winch and package machine. Also suitable for continuous bleaching machines and other pad application.

**GUIDELINES**

1. **ENZYMATIC DESIZING - LONG LIQUOR MACHINE**

<table>
<thead>
<tr>
<th>Description</th>
<th>Concentration</th>
<th>pH Range</th>
<th>Temperature</th>
<th>Time Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rexsize MHT 60 Powder</td>
<td>1.0-2.0 %</td>
<td>6.5-8.0</td>
<td>60-65°C</td>
<td>30-90 mins</td>
</tr>
<tr>
<td>Kleenox Knitz Liquid</td>
<td>0.5-1.0 gms/lit</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1.3 PAD BATCH
Rexsize LHT100 Liquid 2.0-5.0 gms/lit
Common salt 1.0-5.0 gms/lit
Kleenox Knitz Liquid 2.0-5.0 gms/lit

*Note: Addition of Proton WDE Liquid - 1.0-2.0 gms/lit may be recommended for heavy metal chelation*

PHT: 6.5-8.0
Pad at 80-85°C & Batch at RT for 4-8 hours
Pick up: 80-100 %

1.4 CONTINUOUS - PAD STEAM
Rexsize LHT New Liquid 3.0-5.0 gms/lit
Common salt 1.0-5.0 gms/lit
Kleenox Knitz Liquid 1.0-2.0 gms/lit

*Note: Addition of Proton WDE Liquid or Kleerix CR Liquid – 1.0-2.0 gms/lit may be recommended.*

pH: 6.5-8.0
Pad at 80-85°C
Steam at 90-110°C for 1-2 mins
Pick up: 80-100 %

2. SCOURING
2.1 WINCH/JET
Caustic soda flakes 1.5-2.0 %
Kleerix PE-R Liquid 0.5-1.0 %
Kleenox Knitz Liquid 0.3-0.7 %
Fibrolube HML Liquid 1.0-2.0 %

Steam at 95°C for 30-45 mins

2.2 CABINET / PACKAGE
Caustic soda Flakes 1.5-2.0 %
Kleerix PE-R Liquid 0.5-1.0%
Kleenox Knitz Liquid 0.5-1.0 %
Zywet PDG Liquid 0.3-0.5 %

95°C for 30-45 mins

2.3 CONTINUOUS - PAD STEAM
Caustic soda Flakes 30-40 gms/kg
Kleerix PE-R Liquid 1.0-2.0 gms/kg
Kleenox Knitz Liquid 2.0-4.0 gms/kg

Pad Temperature: 60°C
Pick up: 100-120 % (wet on wet)
Steaming temperature: 100°C
Treatment time: 10-20 mins

3. BLEACHING
3.1 DISCONTINUOUS
A) READY TO DYE
Caustic soda Flakes 2.5-3.0 %
H₂O₂ (50%) 0-3.0 %
Zystab REV Liquid 0-0.7 %
Zyquest BLC Liquid 0.2-0.5 %
Fibrolube HML Liquid 1.0-2.0 %
Kleenox Knitz Liquid 0.3-0.7 %

95°C for 40-60 mins
**B) FULL WHITE**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Concentration</th>
</tr>
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<tbody>
<tr>
<td>Caustic soda Flakes</td>
<td>2.0-3.0 %</td>
</tr>
<tr>
<td>$\text{H}_2\text{O}_2$ (50%)</td>
<td>3.0-6.0 %</td>
</tr>
<tr>
<td>Zystab REV Liquid</td>
<td>0.5-1.5 %</td>
</tr>
<tr>
<td>Zyquest BLC Liquid</td>
<td>0.2-0.5 %</td>
</tr>
<tr>
<td>Fibrolube HML Liquid</td>
<td>1.0-2.0 %</td>
</tr>
<tr>
<td>Kleenox Knitz Liquid</td>
<td>0.3-0.7 %</td>
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**Reductive Bleach (if required) with**

<table>
<thead>
<tr>
<th>Ingredient</th>
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</tr>
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<tbody>
<tr>
<td>Sodium Hydrosulphide</td>
<td>2.0 %</td>
</tr>
<tr>
<td>Kleerix PE-R Liquid</td>
<td>2.0 %</td>
</tr>
</tbody>
</table>

**3.2 CONTINUOUS-PAD STEAM**

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<tbody>
<tr>
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<tr>
<td>$\text{H}_2\text{O}_2$ (50%)</td>
<td>20-30 g/kg</td>
</tr>
<tr>
<td>Zystab SA Liquid</td>
<td>2.0-8.0 g/kg</td>
</tr>
<tr>
<td><strong>Kleenox Knitz Liquid</strong></td>
<td>3.0-5.0 g/kg</td>
</tr>
<tr>
<td>Kleerix PE-R Liquid</td>
<td>2.0-5.0 g/kg</td>
</tr>
</tbody>
</table>

Pad Temperature: Room temperature
Pick up: 100-120 % (wet on wet)
Steaming temperature: 100°C
Treatment time: 10-20 mins

**4. ONE BATH SCOUR-BLEACH**

**DISCONTINUOUS**

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</tr>
<tr>
<td>$\text{H}_2\text{O}_2$ (50%)</td>
<td>3.0-4.0 %</td>
</tr>
<tr>
<td>Zystab C Liquid</td>
<td>0.5-1.5 %</td>
</tr>
<tr>
<td>Kleerix PE-R Liquid</td>
<td>0.5-1.0 %</td>
</tr>
<tr>
<td>Fibrolube HML Liquid</td>
<td>1.0-2.0 %</td>
</tr>
<tr>
<td><strong>Kleenox Knitz Liquid</strong></td>
<td>0.5-1.0 %</td>
</tr>
</tbody>
</table>

95°C for 40-60 mins

**5. CONTINUOUS-PAD STEAM**

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<td>20-30 gms/kg</td>
</tr>
<tr>
<td>$\text{H}_2\text{O}_2$ (50%)</td>
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</tr>
<tr>
<td>Zystab SA Liquid</td>
<td>5.0-10.0 gms/kg</td>
</tr>
<tr>
<td><strong>Kleenox Knitz Liquid</strong></td>
<td>3.0-8.0 gms/kg</td>
</tr>
<tr>
<td>Kleerix PE-R Liquid</td>
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Pad Temperature: Room temperature
Pick up: 100-120 % (wet on wet)
Steaming temperature: 100°C
Treatment time: 10-20 mins

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The information and data contained herein has been compiled based on information we believe reliable. Users should thoroughly test all applications and independently conclude satisfactory performance before commercialization, as these recommendations are non-binding. Users assume all liabilities for use of the chemicals. We are not liable for any advice which we may have failed to give.

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