KLEENOX IALF LIQUID

A versatile low foaming, APEO free wetting and scouring agent suitable for continuous bleaching and for machines having the tendency to foam

CONSTITUTION
Alkyl polyglycol ether blend

APPEARANCE
Clear liquid

IONICITY
Nonionic

MISCIBILITY
Miscible in water

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

HIGHLIGHTS
- Good wetting and mineral oil emulsifying properties
- Stable to acid, alkali and hard water
- High efficacy at low dosages
- Suitable for jet, soft flows and drum washing machines 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 IALF 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.

GUIDELINES

1. ENZYMATIC DESIZING - LONG LIQUOR MACHINE

1.1 WARM
Rexsize MHT 60 Powder 1.0-2.0 %
Common salt 1.0-5.0 gms/lit
Kleenox IALF Liquid 0.5-1.0 gms/lit
pH: 6.5-8.0
60-65°C for 30-90 mins

1.2 HOT
Rexsize LHT 100 Liquid 0.5-1.0 %
pH: 6.5-8.0
<table>
<thead>
<tr>
<th></th>
<th>1.0-5.0 gms/lit</th>
<th>0.5-1.0 gms/lit</th>
<th>80-95°C for 30-90 mins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common salt</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kleenox IALF Liquid</td>
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<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 IALF 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

pH: 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 IALF 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 1-60 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 IALF Liquid 0.3-0.5 %
Fibrolube HML Liquid 1.0-2.0 %

2.2 CABINET / PACKAGE

Caustic soda Flakes 1.5-2.0 %
Kleerix PE-R Liquid 0.5-1.0%
Kleenox IALF Liquid 0.3-0.5 %
Zywet PDG Liquid 0.3-0.5 %

2.3 CONTINUOUS - PAD STEAM

Caustic soda Flakes 30-40 gms/kg
Kleerix PE-R Liquid 1.0-2.0 gms/kg
Kleenox IALF 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 C Liquid 0-0.7 %
Kleerix PE-R Liquid 0.2-0.5 %
Fibrolube HML Liquid 1.0-2.0 %
Kleenox IALF Liquid 0.3-0.5 %

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>H₂O₂ (50%)</td>
<td>3.0-6.0 %</td>
</tr>
<tr>
<td>Zystab C Liquid</td>
<td>0.5-1.5 %</td>
</tr>
<tr>
<td>Kleerix PE-R Liquid</td>
<td>0.2-0.5 %</td>
</tr>
<tr>
<td>Fibrolube HML Liquid</td>
<td>1.0-2.0 %</td>
</tr>
<tr>
<td>Kleenox IALF Liquid</td>
<td>0.3-0.5 %</td>
</tr>
</tbody>
</table>

95°C for 40-60 mins

Reductive Bleach: (if required) with

<table>
<thead>
<tr>
<th>Ingredient</th>
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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>
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</tbody>
</table>

70°C for 60 mins

## 3.2 CONTINUOUS - PAD STEAM

<table>
<thead>
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<tbody>
<tr>
<td>Caustic soda Flakes</td>
<td>2.0-8.0 g/kg</td>
</tr>
<tr>
<td>H₂O₂ (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>Kleenox IALF Liquid</td>
<td>3.0-5.0 g/kg</td>
</tr>
<tr>
<td>Kleerix PER 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

<table>
<thead>
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<tbody>
<tr>
<td>Caustic soda Flakes</td>
<td>2.0-3.0 %</td>
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<tr>
<td>H₂O₂ (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>Kleenox IALF Liquid</td>
<td>0.3-0.5 %</td>
</tr>
</tbody>
</table>

95°C for 40-60 mins

## 5. CONTINUOUS - PAD STEAM

<table>
<thead>
<tr>
<th>Ingredient</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Caustic soda Flakes</td>
<td>20-30 gms/kg</td>
</tr>
<tr>
<td>H₂O₂ (50%)</td>
<td>30-50 gms/kg</td>
</tr>
<tr>
<td>Zystab SA Liquid</td>
<td>5.0-10.0 gms/kg</td>
</tr>
<tr>
<td>Kleenox IALF Liquid</td>
<td>3.0-8.0 gms/kg</td>
</tr>
<tr>
<td>Kleerix PE-R Liquid</td>
<td>1.0-2.0 gms/kg</td>
</tr>
</tbody>
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Pad Temperature: Room temperature
Pick up: 100-120 % (wet on wet)
Steaming temperature: 100°C
Treatment time: 10-20 mins