PRIMAGREEN®—ENZYMES FOR MORE SUSTAINABLE TEXTILES PROCESSING.

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PRIMAGREEN® ECOSCOUR
HIGH-QUALITY AND ECO-FRIENDLY SCOURING PROCESS

Moving towards more sustainable pre-treatment in textile processing

Contact us at textiles@dupont.com. Visit us online at primagreen.dupont.com for product solutions and more.

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Sustainable.
**PRIMAGREEN® ECOSCOUR**
LOW TO MEDIUM TEMPERATURE SCOURING AT NEUTRAL pH FOR SAVINGS IN WATER, ENERGY AND TIME

PrimaGreen® EcoScour features a scouring enzyme with a neutral pH operating range that prepares fabric for dyeing medium to dark shades. When compared to a conventional textile pre-treatment processing, the enzymatic PrimaGreen® EcoScour process is more eco-friendly* and economical.

**FEATURES**
- No caustic soda
- Neutral pH scouring process
- Combined scouring and biofinishing

**BENEFITS AND GAINS**
- Up to 60% of energy and water savings
- Up to 31% shorter process
- Softer fabrics
- Enhanced absorbency and dye uptake
- Reduced fabric weight loss

**PROCESS**

**CONVENTIONAL SCOURING PROCESS**

![Graph of conventional scouring process](image)

**PRIMAGREEN® ECOSCOUR PROCESS**

![Graph of PrimaGreen® EcoScour process](image)

**PROCESS COST COMPARISON (SCOURING+BIOFINISHING)**

<table>
<thead>
<tr>
<th>Water</th>
<th>Electricity</th>
<th>Steam</th>
<th>Time</th>
<th>Chemicals</th>
<th>Total Process Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>20%</td>
<td>12%</td>
<td>40%</td>
<td>20%</td>
<td>18%</td>
<td>120%</td>
</tr>
</tbody>
</table>

* * sluggish behavior.
"-" indicates lower strength loss.

**APPLICATION**
- Scouring
- Dyeing

**FABRIC**
- 170g/m², 30S/1 combed cotton jersey fabric

**MACHINE**
- Fongs SYN G2 Air-Flow dyeing machine

**LIQUOR RATIO**
- 5:1

**DYESTUFF**
- Remazol Navy Blue

**SCOURING AGENT**
- A: Stabilizer, Scouring agent, NaOH
- B: Primafast® GOLD RSL

**CHELATING AGENT**
- Primafact® Gold RSL 0.24% OWF

**PROCESSING CONDITION AND RECIPE**

<table>
<thead>
<tr>
<th>Conventional scouring process</th>
<th>PrimaGreen® EcoScour process</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scouring agent A</td>
<td>4% OWF</td>
</tr>
<tr>
<td>Stabilizer</td>
<td>0.6% OWF</td>
</tr>
<tr>
<td>NaOH (30%)</td>
<td>6% OWF</td>
</tr>
<tr>
<td>pH</td>
<td>6.8</td>
</tr>
<tr>
<td>105°C, 15 minutes</td>
<td></td>
</tr>
<tr>
<td>Biofinishing</td>
<td>Primafact® GOLD RSL 0.24% OWF</td>
</tr>
<tr>
<td>Primafact® GOLD RSL</td>
<td>0.24% OWF</td>
</tr>
<tr>
<td>55°C, pH 6.2, 60 minutes</td>
<td></td>
</tr>
<tr>
<td>Combined scouring and biofinishing</td>
<td>Primafact® Gold RSL 0.24% OWF</td>
</tr>
<tr>
<td>Primafact® Gold RSL</td>
<td>0.24% OWF</td>
</tr>
<tr>
<td>60°C, pH 6.8, 60 minutes</td>
<td></td>
</tr>
</tbody>
</table>

* Eco-friendly refers to water and energy savings.