Sustainability is our responsibility. At DyStar, our products and services help customers worldwide reduce costs, shorten lead times and meet stringent quality and ecological specifications.
Deep black shades require high amounts of dyes. The new Remazol Midnight Black RGB is a highly concentrated Black with outstanding properties:

- White dischargeable in all color depths
- Very low staining to Polyamide in fiber blends
- Medium substantivity for reliable dyeing results

The new, innovative Remazol Midnight Black RGB offers an optimum solution for exhaust and padding application when deepest Blacks are required.

Remazol Midnight Black RGB can be used in all Remazol, Remazol RGB / Remazol Ultra RGB combinations.

The advantages of Remazol Midnight Black RGB at a glance:

**Color Confidence**
- Neutral to greenish shade
- Low staining to Polyamide in fiber blends
- White dischargeable in all color depths

**Controlled Coloration**
- Very good reproducibility and levelness
- Balanced migration behavior
- Flexible use in exhaust, cold pad-batch and continuous processes
- Good wash-off behavior

Remazol Midnight Black RGB econfidence® facts:
- AOX free (tbc)
- Metal free (tbc)
- Full compliance with Oeko-Tex® Standard 100
- Meets all Restricted Substance Lists (RSL)
- Applied for GOTS approval
- Submitted to bluesign®
- Retailer brand image

**Remazol® Midnight Black RGB: For deepest Blacks with neutral to greenish shade**
Deep black shades require high amounts of dyes. The new Remazol Midnight Black RGB is a highly concentrated Black with outstanding properties:

- White dischargeable in all color depths
- Very low staining of Polyamide in fiber blends
- Medium substantivity for reliable dyeing results

The new, innovative Remazol Midnight Black RGB offers an optimum solution for exhaust and padding application when deepest Blacks are required.

Remazol Midnight Black RGB can be used in all Remazol, Remazol RGB / Remazol Ultra RGB combinations.

The advantages of Remazol Midnight Black RGB at a glance:

- Color Confidence®
  - Neutral to greenish shade
  - Low staining to Polyamide in fiber blends
  - White dischargeable in all color depths
- Controlled Coloration®
  - Very good reproducibility and levelness
  - Balanced migration behavior
  - Flexible use in exhaust, cold pad-batch and continuous processes
  - Good wash-off behavior

Remazol Midnight Black RGB econfidence® facts:

- AOX free (tbc)
- Metal free (tbc)
- Full compliance with Oeko-Tex® Standard 100
- Meets all Restricted Substance Lists (RSL)
- Applied for GOTS approval
- Submitted to bluesign®
- Retailer brand image

Committed to Sustainability

Remazol® Midnight Black RGB: Technical Properties

Suitability for processes:
- Exhaust dyeing process
- Cold pad-batch process
- Pad-steam process
- Pad-dry-steam process
- Econtrol® process
- Pad-dry-thermofix process
- TTN process

Solubility under neutral dyeing conditions:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Glauber’s salt</th>
<th>Common salt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neutral</td>
<td>Medium</td>
<td>Fixed value</td>
</tr>
<tr>
<td>Reactivity</td>
<td>Medium</td>
<td>15</td>
</tr>
<tr>
<td>Fixation value</td>
<td>80%</td>
<td>15</td>
</tr>
</tbody>
</table>

Selected fastness properties on bleached, mercerized woven cotton fabric:

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard depth</th>
<th>Light fastness (ISO 105-B02)</th>
<th>Nike® PLF alk. (ISO 105-B07)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen Fastness ISO 105-G01 3x</td>
<td>4-5</td>
<td>4-5</td>
<td>4-5</td>
</tr>
<tr>
<td>Chlorine Fastness ISO 105-E03 0 (ppm)</td>
<td>3-4 R</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Staining to multifiber during standard dyeing process:

<table>
<thead>
<tr>
<th>CO</th>
<th>PES</th>
<th>PAN</th>
<th>CV</th>
<th>WO</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>4-5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>CTA</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

For Deep Black shades in exhaust process:

Minimum recommended salt amount is 80 g/l in LR 10:1. In general mix alkali (soda ash/caustic soda) lead to deeper shades.

Alkaline Dischargeability (on CPB dyeing with 50 g/l):

<table>
<thead>
<tr>
<th>CO</th>
<th>PA 6.6, filament</th>
<th>PA 6.6, staple fiber</th>
<th>CA</th>
<th>CTA</th>
<th>WO</th>
<th>PES</th>
<th>PAN</th>
<th>CV</th>
<th>CO bleached, merc.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>White</td>
<td>colored</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>white</td>
<td>colored</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Recipes for dischargeability:

<table>
<thead>
<tr>
<th>Recipe</th>
<th>white</th>
<th>colored</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sera Print M-CAM 11 %</td>
<td>550</td>
<td>150</td>
</tr>
<tr>
<td>Demineralized water, cold</td>
<td>250</td>
<td>150</td>
</tr>
<tr>
<td>Potash</td>
<td>130</td>
<td>120</td>
</tr>
<tr>
<td>Enzyme® Yellow SGE (1%)</td>
<td>60</td>
<td>1000g</td>
</tr>
<tr>
<td>Balance (viscosity approx. 3.5 d. Pa.s)</td>
<td>50</td>
<td>1000g</td>
</tr>
</tbody>
</table>

Very low staining to non-cellulosic fibers

Fully white dischargeable
Sustainability is our responsibility. At DyStar, our products and services help customers worldwide reduce costs, shorten lead times and meet stringent quality and ecological specifications.