Valmet Press Roll Cover PH
Polyurethane cover for pressing in tissue machine applications

Highly durable covers maximizing dryness and runnability. Benefits are secured when used with Valmet iRoll nip pressure measuring system. Cover maintenance needs are minimal, providing low operating costs. Covers are available with several hardness options and have an optimal surface structure, a high open area and a large void volume. As covers feature minimal heat generation, there is no need for internal water cooling in press roll applications, due to low rolling resistance under dynamic load.

Applications
• Tissue press rolls
• Tissue suction press rolls

Topography options
• Plain, grooved, blind-drilled and suction-drilled

Cleaning
Excellent resistance against all normal process chemicals. Recommended pH range 4 to 9. Avoid long exposure to strong alkalis and acids or alcohols.

<table>
<thead>
<tr>
<th>Valmet Press Roll Cover PH</th>
<th>Cover color</th>
<th>Hardness</th>
<th>Cover thickness</th>
<th>Maximum temperature</th>
<th>Surface roughness</th>
<th>Maximum loading</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH</td>
<td>Violet</td>
<td>12–33 P&amp;J</td>
<td>15–25 mm (0.60–1.00&quot;)</td>
<td>105°C (200°F)</td>
<td>Ra &lt; 3.2 µm (120 µin)</td>
<td>120 kN/m (700 pli)</td>
</tr>
<tr>
<td>For press rolls</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PH-V</td>
<td>Violet</td>
<td>12–33 P&amp;J</td>
<td>15–25 mm (0.60–1.00&quot;)</td>
<td>105°C (200°F)</td>
<td>Ra &lt; 3.2 µm (120 µin)</td>
<td>120 kN/m (700 pli)</td>
</tr>
<tr>
<td>For suction press rolls</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Benefits
• Maximal dewatering and desired tissue bulkiness/thickness
• Savings in roll drive power
• Less need for grinding, longer running periods
• No need for internal cooling
Valmet Press Roll Cover PH

Patching and repair
Patch repair may be considered in the case of smaller surface problems. Please consult Valmet.

Chemical resistance
Excellent resistance against all normal process chemicals. Recommended pH range 4 to 9. Avoid long exposure to strong alkalis and acids or alcohols.

Doctoring recommendations
- Polyethylene doctor blades may be used for doctoring. Ask Valmet for blade recommendation.
- Blade angle 20°
- Blade load 90–140 N/m (0.5–0.8 pli)
- Oscillation is not required but preferred in some demanding applications

Cover drying
No specific instructions for this cover.

Transportation and storage
When a roll is shipped in cold weather (below +0°C / 32°F), it is advisable to leave it in its transportation packaging and let it warm up slowly for at least 24 hours. Sudden temperature changes may damage roll covers. Store rolls in a dry roll storage room at a temperature of 10 to 30°C (50 to 85°F).

Always support rolls on their journals. Protect the entire covered surface with a layer of paper or cardboard. Never rest rolls on their covers.

Roll cooling
No internal cooling recommended for press rolls. Please consult Valmet for more info.

Crowning and tapering
Regarding crown and tapers, follow primarily original cover and roll design. If modifications are needed, consult your roll service representative.

Unless otherwise specified, the standard taper of press roll cover will begin one-inch (1” or 25 mm) outboard of the sheet edge and is 1.5 mm on diameter per 100 mm taper length (3/8” inch on diameter per foot of taper length). Tapers must be reconditioned during regrinding.