NCCM® Premiere Yellow

The Proven High-Value Nonwoven Roll

The yellow original—outstanding in technical features, performance and service life
**INTRODUCTION**

The renowned NCCM® Premier Yellow outperforms any other nonwoven roll in the world and has been a world-class benchmark for 25+ years! With applications such as wringing, oiling, de-oiling, blank washing and more, the Yellow roll is custom-engineered to succeed in multiple industries and applications. Features such as long life, repairability, fluid control and high coefficient of friction contribute to the Yellow roll’s dominance.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>DENSITIES</th>
<th>MAX. TEMPERATURE</th>
<th>MAX. OPERATING PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3N, 4N, 5N, 6N, 7N, 8N, 9N and 11N</td>
<td>approx. 140°C (284°F)</td>
<td>605/142 P.S.I.</td>
</tr>
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<table>
<thead>
<tr>
<th>SIDES</th>
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<tbody>
<tr>
<td>Max. roll size</td>
<td>647,7mm (25.5”) OD; 457,2mm (18”) ID</td>
<td>Min. roll size</td>
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</tbody>
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<table>
<thead>
<tr>
<th>FLUIDS</th>
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<tbody>
<tr>
<td>Water, and many different fluids in the pH range 2-12, for example</td>
<td>- Acetic acid</td>
<td>- Propionic acid</td>
</tr>
<tr>
<td>- Lactic acid</td>
<td>- Lactic acid</td>
<td>- Alcoholic liquids</td>
</tr>
<tr>
<td>- Isopropyl alcohol</td>
<td>- Isopropyl alcohol</td>
<td>- Phenol</td>
</tr>
<tr>
<td>- Tetrahydrofuran</td>
<td>- Tetrahydrofuran</td>
<td>- Synthetic oils</td>
</tr>
</tbody>
</table>

**FEATURES AND BENEFITS**

**FEATURES**

- Longest life
- Repairability
- Superior fluid control
- Highest coefficient of friction
- Self-healing
- Cut resistant
- Porosity
- Reduced replacement cost
- Reduced inventory cost
- Reduced maintenance cost
- Reduced fluid usage/cost
- Reduced staining from poor wringing
- Reduced defects on coil
- Increased line speed
- Cost effective

**NONWOVEN ADVANTAGE**

Unlike rolls made from traditional materials, NCCM nonwoven rolls are compressible. The void volume allows compressive forces to dissipate more efficiently, resulting in superior performance.
FEATURES
NCCM® Premier Yellow nonwoven rolls are a value-add in countless metal sheet processing applications in primary metals and automotive stamping plants. They are designed to replace traditional roll coverings such as rubber, urethane, other nonwovens and various fabrics.

Four key factors separate NCCM nonwoven rolls from the competitors’ products. These features stem from NCCM’s proprietary bonded sleeve construction.

Repairability

Repairability

The NCCM® Premier Yellow can be repaired and reground. When repairing a roll, NCCM is often able to replace sections instead of the full roll, saving companies from wasted time and money purchasing and waiting for a whole new roll.

Long Life

Long Life

Several characteristics, such as repairability and self-healing, contribute to the NCCM feature of long life. When a roll lasts longer, fewer rolls must be purchased to replace them. The long life of the NCCM® Premier Yellow roll is paired with consistent performance, saving companies downtime and replacement costs.

High Coefficient of Friction

High Coefficient of Friction

High coefficient of friction reduces metal strip slippage and hydroplaning and increases grip on the product. Many nonwovens list this feature as a strength, but the NCCM® Premier Yellow excels in this feature above and beyond other nonwovens.

Fluid Control

Fluid Control

An increase in fluid control means less fluid usage, a lower likelihood of water spots on the strip and a consistently higher-quality product. Fluid control can be precisely determined and controlled with the NCCM® Premier Yellow roll.

Repairability

Repairability

- Repairs can replace failed roll face and protect the mandrel
- Repairable rolls are user-friendly, easy to work with
- No need to disassemble the mandrel
- NCCM roll comes in a variety of colors

Long Life

Long Life

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Precision Fluid Control

Precision Fluid Control

How a High Performance NCCM Nonwoven Roll Works in a Single 360° Turnaround

Phase #1

- Nonwoven roll lever compresses with surface contact
- Full engagement results in damping effect and load is absorbed into roll cover due to capillary effect

Phase #2

- Tip area stays compressed and completely sealed

Phase #3

- Nonwoven expands and decompresses, resulting in absorption of excess fluid
- NCCM roll retains a thin, consistent and determinable film on the sheet surface
- Force on the machine can be determined by material density and roll pressure selection

Phase #4

- Continuous oscillation in a reduced roll state
- Machine stays highly consistent as application parameters are adjusted over time
MARKETS

OEM
Manufacturing Technology—World class from pre-sales to after sales
Long life, higher quality performance and non-marking capabilities contribute to the NCCM® Premier Yellow’s appeal for OEMs. Additional value is found in the deep technical design competence we bring to each new roll build based on broad application engineering knowledge. Our service does not end with an order being supplied; with our global presence and comprehensive network, we also provide on-site installation support and local follow-up service for each new roll installed around the world.

PRIMARY METALS
Sheet, Coil and Tube Processing—Upgrades in process line efficiency you would not imagine
Our products excel in the primary metals market due to unmatched long life. This feature leads to more line uptime and fewer operating, maintenance and unplanned downtime costs. The NCCM® Premier Yellow roll delivers increased fluid control and upgraded surface quality as well as increased line speeds and decreased manufacturing costs.

AUTOMOTIVE
Blank and Coil Washing—Outstanding in long life and precision oil film control
NCCM® Premier Yellow blank washing rolls provide excellent cleaning and oiling of blanks to prevent costly quality errors later on in the stamping process. NCCM’s nonwoven rolls last 2–5 times longer than any other nonwoven. Other products claiming to have long life will cease to perform well as time goes on, but NCCM nonwoven rolls maintain their initial “new roll” performance throughout their whole life (up to 5 regrinds). This consistently superior performance achieves oil film targets to the lowest requirement of below 1 g/m².

INDUSTRIAL
Metals Processing and Materials Handling—Use the unique features of high-tech nonwovens to make your products better
NCCM nonwoven rolls lead multiple markets, and the same high performance is available for industrial applications. NCCM nonwoven rolls used in simple oiling applications provide a precise solution for previously uneven oil application and result in less oil waste. Whatever the material handling or industrial needs, find the solution with NCCM Company.

APPLICATIONS

NCCM® Premier Yellow
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First choice TECH SOLUTION roll
Outstanding in performance, features and long life

This chart is meant to give an overview and does not provide formal guarantees for any application. Please contact an NCCM representative for further recommendations and technical support.

LINES

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NCCM® Premier Yellow Blank Washing Rolls
Counter-rotating bristle brushes

NCCM® NT Feeder Rolls

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An NCCM® core value is to reduce our global environmental footprint through lean processing and green technologies resulting in cost savings to our customers.