



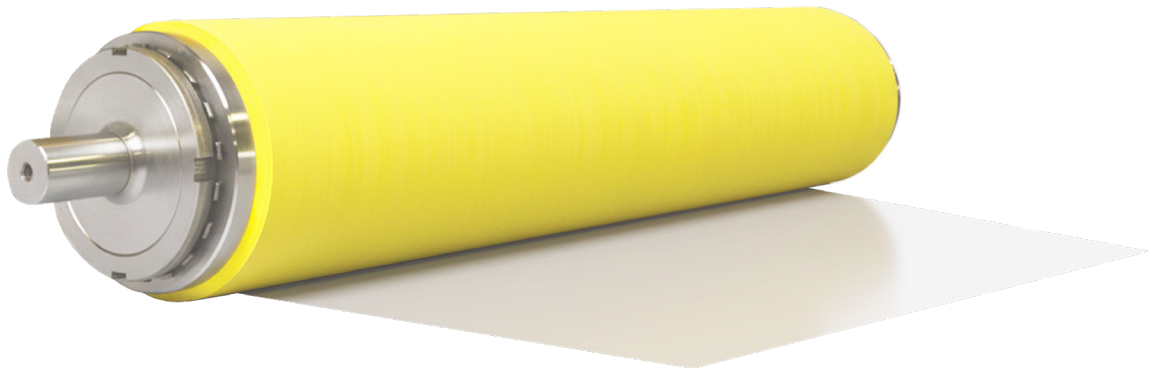
## NCCM® PREMIER YELLOW

Built to  
Perform.  
Engineered  
to Last.

The industry's #1 nonwoven roll,  
custom-engineered to your line,  
grade, and application.



THE YELLOW ORIGINAL—OUTSTANDING IN TECHNICAL  
FEATURES, PERFORMANCE, AND SERVICE LIFE



# NCCM PREMIER NONWOVEN ROLLS

## 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, reparability, fluid control, and a high coefficient of friction contribute to the Yellow roll's dominance.



## SPECIFICATIONS

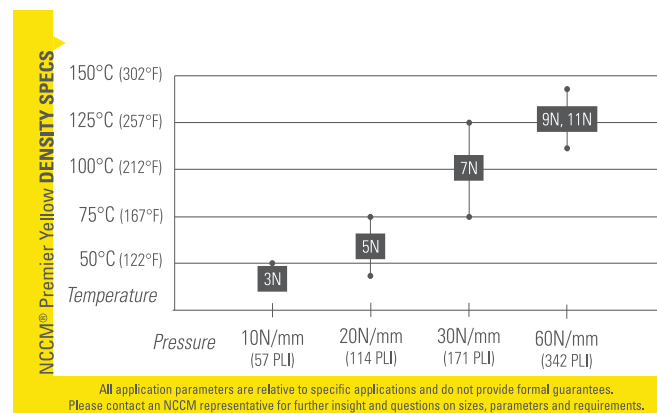
NCCM® Premier Yellow	<b>DENSITIES</b>	3N, 4N, 5N, 6N, 7N, 8N, 9N and 11N	<b>MAX. TEMPERATURE</b>	approx. 140°C (284°F)
	<b>SIZES</b>	Max. rolls size: 647,7mm (25.5") OD; 457,2mm (18") ID Min. roll size: 50,8mm (2") OD; 25,4mm (1") ID	<b>MAX. OPERATING PRESSURE</b>	60N/mm (342 PLI)

### FLUIDS

Water, oils and many different fluids in the pH range of 2–10. For example:

- N-Butyl acetate
- Cellosolve acetate
- Isobutanol
- Toluene
- MEK
- Isopropanol
- Trichloroethane
- Methylene chloride
- Perchloroethane
- Hexane
- Trichloroethylene
- Hydrocarbon oils
- Petroleum oils
- Synthetic oils

All application parameters are relative to specific applications and do not provide formal guarantees. Please contact an NCCM representative for further insight and questions on sizes, parameters and requirements.



## FEATURES AND BENEFITS

**NCCM® Premier Yellow**

FEATURES
• Longest life
• Reparability
• Superior fluid control
• Highest coefficient of friction
• Self-healing
• Cut resistant
• Porosity

Please contact an NCCM representative for additional information on features and benefits.

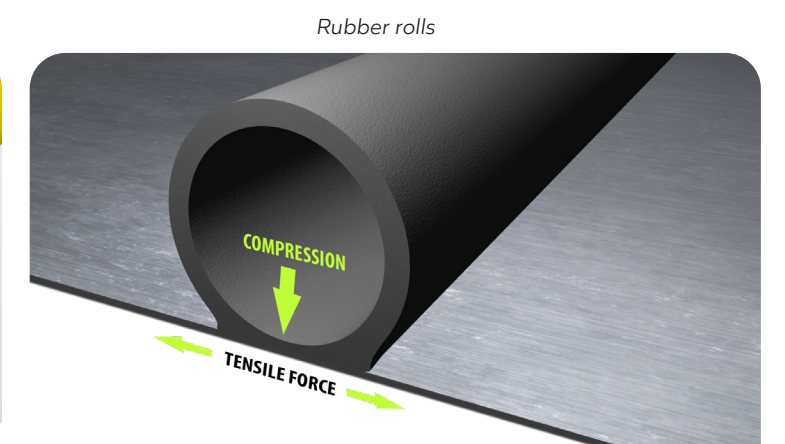
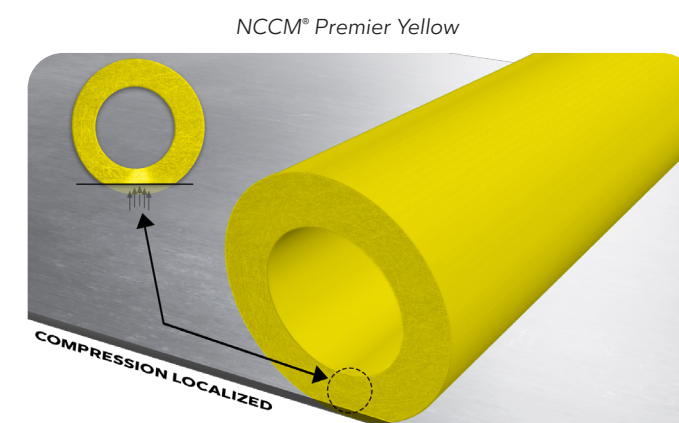
BENEFITS
• Reduced replacement cost
• Reduced inventory cost
• Reduced maintenance cost
• Reduced fluid usage/cost
• Reduced staining from poor wringing
• Reduced defects on coil
• Increased line uptime
• Increased line speed
• Cost effective



Individual discs of special fiber bonded together with a tough, flexible adhesive

## 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.

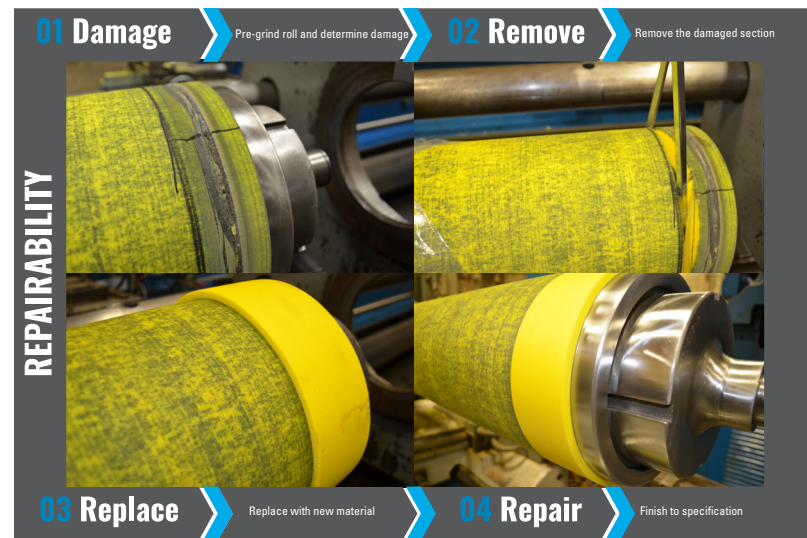


## FEATURES

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 Long Life

## High Coefficient of Friction Fluid Control



## REPAIRABILITY

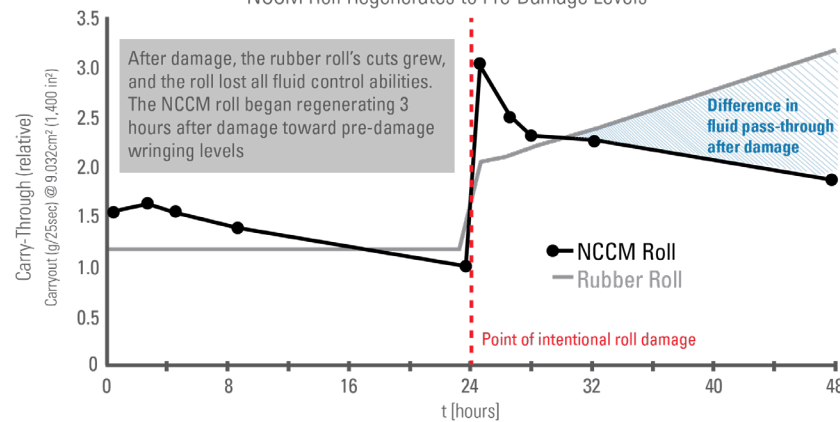
Unlike other nonwoven rolls, NCCM nonwoven rolls can be easily repaired and reground. Due to the individually-bonded nonwoven disc construction of our rolls, NCCM is able to replace sections of the roll, allowing companies to avoid wasting time and money with frequent replacements. After repairs and regrinds, the rolls can be placed back in the application for continued high performance.

## LONG LIFE

Several characteristics, such as repairability, compressibility, and resistance to damage, contribute to the NCCM feature of long life. Due to NCCM rolls' life-long high performance, fewer inferior replacement rolls are needed. Even at a more expensive upfront cost, a one-time investment in high-quality NCCM rolls ends up costing less than continuous smaller payments toward frequently-replaced rolls. Longer roll life and high performance translates into less money spent and can make an impact on your bottom line.

### NCCM Roll Response to Damage

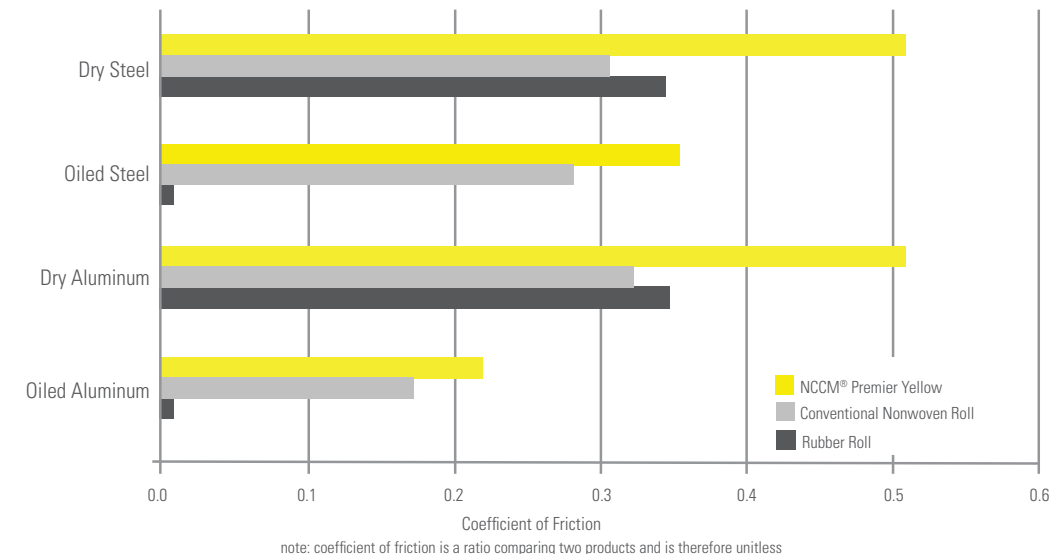
NCCM Roll Regenerates to Pre-Damage Levels



## HIGH COEFFICIENT OF FRICTION

NCCM nonwoven rolls excel in coefficient of friction above and beyond competing rubber and urethane rolls. This difference is most notably seen on wet or oiled strips. NCCM rolls' porosity and individually-bonded nonwoven disc construction allow them to absorb excess fluid and debris, reduce hydroplaning, decrease strip slippage and increase grip on the product.

### Coefficient of Friction

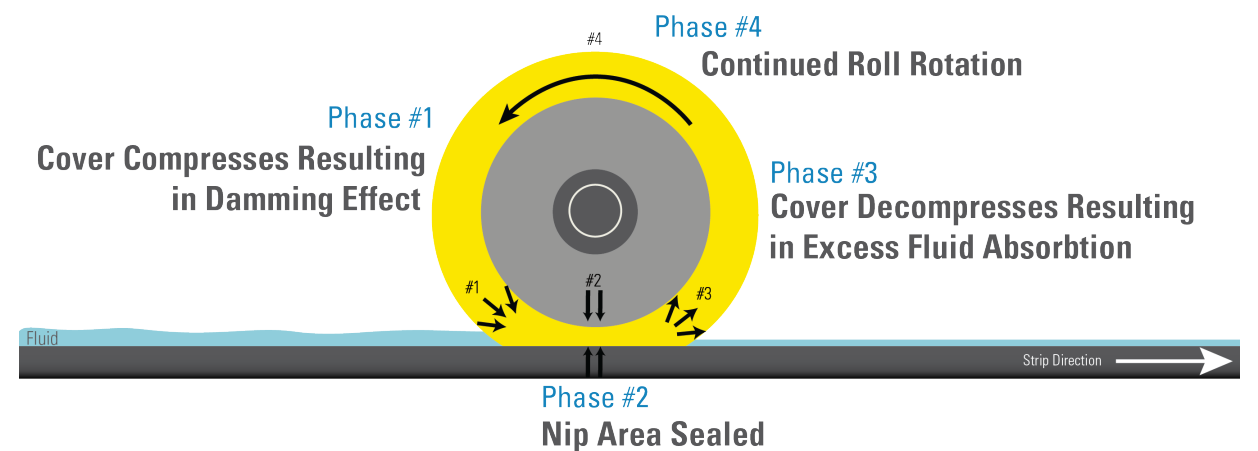


## FLUID CONTROL

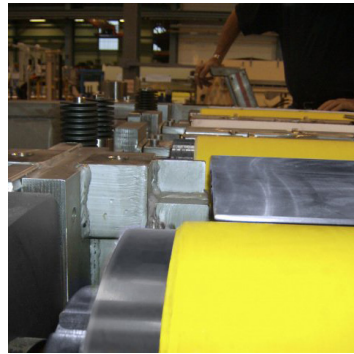
NCCM nonwoven rolls' porosity, superior durability, resistance to damage and compressibility allow for an increase in fluid control capabilities. This can equate to less fluid waste, fewer water spots on the strip and a consistently higher-quality product. In the automotive industry, precisely-controlled fluid applied to the blank reduces stamping defects and scrap in the manufacturing process.

### Precision Fluid Control

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



## 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.



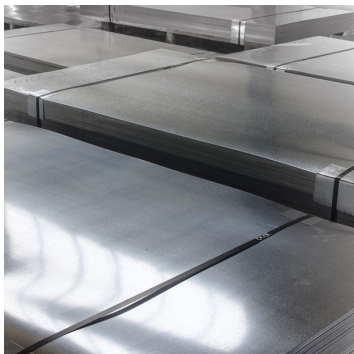
### METALS

Sheet, Coil, and Tube Processing—Upgrades in process line efficiency you would not imagine. Our products excel in the primary metals market due to their 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/m<sup>2</sup>.



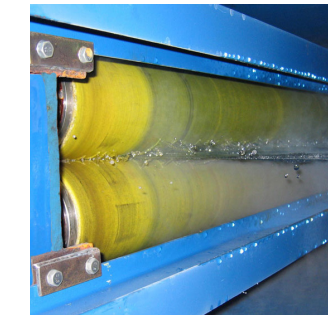
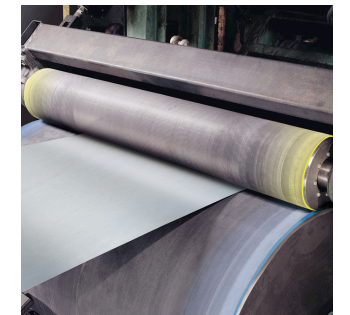
### INDUSTRIAL

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

First choice **TECH SOLUTION** roll  
Outstanding in performance, features and long life

Wringing	✓
Oiling	✓
Blank Washing	✓
De-Oiling	✓
Squeegee	✓
Wiper	✓
Tension/Break	✓
Deflector	✓
Pinch/Feeder	✓
Table/Conveyor	✓
Hold Down	✓
Steering	✓
Vacuum	✓
Ironing	✓
Acidic Applications	
Alkaline Applications	
Bridle/Large Deflector	✓



## LINES

AUTOMOTIVE		PRIMARY METALS		
BL (Blanking Line)	✓	APL (Annealing & Pickling Line)	GL (Grinding Lines)	✓
BW (Blank Washer)	✓	BAL (Bright Annealing Lines)	HDGL (Hot-dip Galvanizing Lines)	✓
CBC (Cross Brush Cleaner)	✓	CAL (Continuous Annealing Lines)	LM (Lamination Lines)	✓
ESO (Electrostatic Oiler)	✓	CCL (Coil Coating Line)	OCL (Organic Coating Lines)	✓
		CTL (Cut-to-length Lines)	PL (Painting Lines)	✓
		CGL (Continuous Glavanizing Lines)	PL (Passivation Lines)	✓
		CL (Cleaning Lines)	PL (Pickling Lines)	✓
		CPL (Continuous Pickling Lines)	RM (Reversing Mills)	✓
		CRM (Cold Rolling Mills)	SL (Slitting Lines)	✓
		DL (Degreasing Lines)	SPM (Skin-pass Mills)	✓
		DPL (Descaling and Pickling Lines)	TL (Transfer Lines)	✓
		ECL (Electrolytic Cleaning Lines)	TLL (Tension Leveling Lines)	✓
		EGL (Electrolytic Galvanizing Lines)	TM (Tandem Mills)	✓
		ETL (Electrolytic Tinning Lines)	TM (Temper Mills)	✓

These charts are meant to give an overview and do not provide formal guarantees for any application. Please contact an NCCM representative for further recommendations and technical support.



## GLOBAL LOCATIONS

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### INTERNATIONAL SALES AGENCIES

Sales agents in Mexico, Canada, the Czech Republic, Germany, Turkey, France, and the United Kingdom.

Contact sales@nccmco.com to connect with your local sales representative, VAR, sales agent, distributor, or roll service center.

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

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