



NCCM[®]
Roll Technology Solutions

NCCM[®] CX-SERIES MILL ROLLS

Leading industry in the right direction

NCCM[®] CX-Series Mill Rolls, made with 3M materials
are the premium choice for roll operations.

NCCM® CX-Series Mill Rolls

An ideal choice for harsh chemistries

NCCM® CX-Series Mill Rolls are today's high-performance alternative to rolls made from rubber. Because of their unique non-woven synthetic fiber construction, NCCM® CX-Series Mill Rolls can last longer with less maintenance – while helping to improve process quality and consistency. These production-proven products are available in a variety of sizes and configurations, to meet the requirements of your most challenging applications.



An Ideal Choice for Harsh Chemistries

NCCM® CX and CX-Plus Mill Rolls are specially engineered to perform in aggressive chemical environments, such as electrolytic lines for tinning, chroming or galvanizing; or on pickling, caustic cleaning or coil coating lines. They can make a significant contribution to increased productivity in the following ways:

More Uptime

NCCM® Mill Rolls can last significantly longer than rubber rolls, so they require changing less frequently, which can result in fewer unplanned stops.

Reduced Maintenance Costs

Because they are self-healing and resistant to cuts and gouges, NCCM® Mill Rolls require fewer repairs that can rob you of productivity. When problems do occur, NCCM® Mill Rolls are easily repaired, avoiding the cost of roll replacement.

Improved Process Quality and Control

The uniform porosity of NCCM® Mill Rolls, and their ability to maintain tight contact with the coil, makes thinner, more consistent coatings. And their high coefficient of friction reduces slippage and hydroplaning, for better material control.

Maintain Integrity of Process Fluids

The compressibility and porosity of NCCM® Mill Rolls allows them to conform to variations in gauge thickness and maintain consistently tight contact across the strip. This not only ensures uniform wringing, but has also demonstrated a significant reduction in carry-out of chemical from tank to tank.

Fewer Defects on Coil Surface

Metal shards and debris can become trapped on the surface of rubber rolls, causing defects on the coil. The porous non-woven material of NCCM® Mill Rolls tends to “pull” small particles into itself, where it is less likely to come into contact with the coil.

Reduced Chemical Costs

By reducing carry-out and cross-contamination, NCCM® Mill Rolls can help reduce your fluid consumption and cut the cost of waste disposal.

Lower Energy Costs

Because of their high coefficient of friction, the use of NCCM® Mill Rolls can often eliminate the need for auxiliary motors - while in most cases allowing faster line speeds and better tracking. And, because they provide thorough, uniform wringing, NCCM® Mill Rolls can reduce or eliminate the need for mechanical drying in many applications.

NCCM® CX-Series Mill Rolls are constructed from individual discs of non-woven synthetic fiber bonded together with a tough flexible adhesive for a unique combination of characteristics: resiliency, gouge resistance, self-healing, porosity and absorbency.

Recommended Applications:

- Wringer rolls in acidic and caustic environments
- Hold-down rolls
- Deflector rolls
- Steering rolls
- Pinch/feed rolls
- Submerger rolls

Recommended Production Lines:

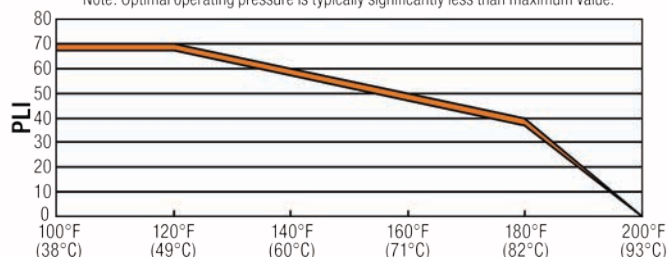
- Electroplating lines
- Pickling lines
- Color-coating lines
- Caustic washers



NCCM® CX and CX-Plus Series Mill Rolls.

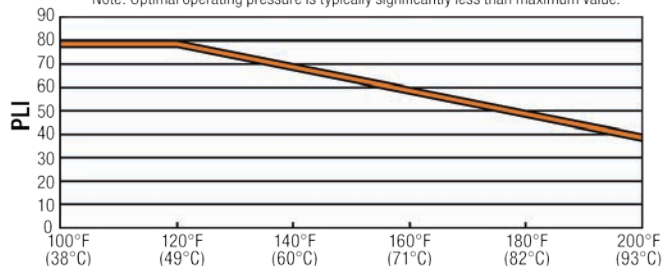
CX Chemical Applicator Roll (5CX)

Maximum Theoretical Operating Pressure vs. Temperature – DO NOT exceed values.
Note: Optimal operating pressure is typically significantly less than maximum value.



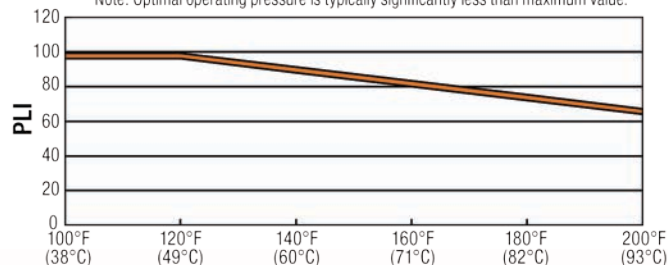
CX Chemical Wringer Roll (7CX)

Maximum Theoretical Operating Pressure vs. Temperature – DO NOT exceed values.
Note: Optimal operating pressure is typically significantly less than maximum value.



CX-Plus Chemical Wringer Roll (7CX-Plus)

Maximum Theoretical Operating Pressure vs. Temperature – DO NOT exceed values.
Note: Optimal operating pressure is typically significantly less than maximum value.



***Tables are for 2" annulus or thicker. Thinner annulus can reduce pressure capability.**

NCCM®'s Product Availability

Product	Density		Typical Applications
	5	7	
CX	X	X	Outstanding resistance to caustic and acidic environments
CX-Plus	X	X	Designed for use as a chemical wringing roll in applications requiring higher pressure and temperature ratings

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