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**SIMPLE WAYS TO REDUCE ENVIRONMENTAL IMPACT OF METAL PROCESSING**

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## ENVIRONMENTAL IMPACT

Virtually every primary metal processor is concerned about reducing the environmental impact of its metal processing operation. The industry is being impacted by stricter federal, state and local regulations, and the cost of disposing of chemically treated-fluids is rising. Beyond those considerations, environmental responsibility plays heavily into a corporation's reputation.

Typically the words environmental responsibility or carbon footprint leads companies to think about big initiatives such as waste water treatment facilities or making other retrofits to plants. But the truth of the matter is that companies can make significant strides toward reducing their carbon footprint simply by switching from rubber or urethane mill rolls to NCCM® *Premier Yellow Neutral* mill rolls or other products from NCCM®. NCCM Company is considered an industry leader because its rolls are made of 3M's proprietary materials known and trusted for performance and reliability. NCCM® also engineers solutions for every application giving the end user the best value possible.

## THE NCCM DIFFERENCE



How can a mill roll make a difference? The answer is in the construction of the roll. NCCM® *Premier Yellow Neutral* mill rolls are made of a unique, non-woven, synthetic fiber construction which is porous. The rolls are engineered and built to specific densities at NCCM facilities to account for each application. For example, a roll with a high void volume is ideal for use as a wringer roll. In contrast, a roll with a lower void volume is used for tensioning applications.

NCCM® mill rolls excel when it comes to controlling fluids used on metal processing lines. Some typical uses are to wring water, caustic acid and other solutions used to process metal rolls, as well as oiling and de-oiling rolls. NCCM® mill rolls reduce the pass-through of these chemicals and significantly reduces the amount of chemicals needed to run chemical baths. NCCM® *Premier Yellow Neutral* is used for solution with a PH from 3 to 10. CX or CX Plus is used for solutions with a PH range from 1 to 3 or 10 to 14. The high void volume of wringer rolls provides uniform drying which often reduces the needs for drying ovens. Costs for chemical purchases, disposal and transportation are decreased.

Another significant reason to choose a NCCM® *Premier Yellow Neutral* mill roll over a rubber roll is that one NCCM® *Premier Yellow Neutral* mill roll can last up to 100 rubber rolls.

In addition to better fluid controls, and a long product life, the unique construction of NCCM® *Premier Yellow Neutral* mill rolls have a high coefficient of friction approximately 30 times that of rubber, to create unparalleled strip steering and drive control that eliminates slippage. That means that motor drives can be disconnected because the drives are not needed to match the line speed, once again reducing the operation's energy use and environmental impact.



**SUMMARY OF BENEFITS**

This list of benefits makes it hard to ignore looking at incorporating NCCM® Premier Yellow Neutral, CX, and CX Plus mill rolls into your operations; not only for the environmental impact, but for the cost savings and increased productivity they bring to the bottom line. With raw material costs continually rising, creating these kinds of efficiencies will help save your company money and keep your company competitive.

-  **Reduced chemical and oil .....** **Less used and less wasted**
-  **Reduced rolls .....** **One NCCM® Roll can = up to 100 rubber rolls**
-  **Reduced electricity .....** **Non-motor driven rolls**
-  **Reduced energy .....** **Less electricity to dry and drive strips**
-  **Reduced spare roll storage .....** **Fewer rolls means less warehouse needed**

Environmental impact = \$\$\$ Business savings

