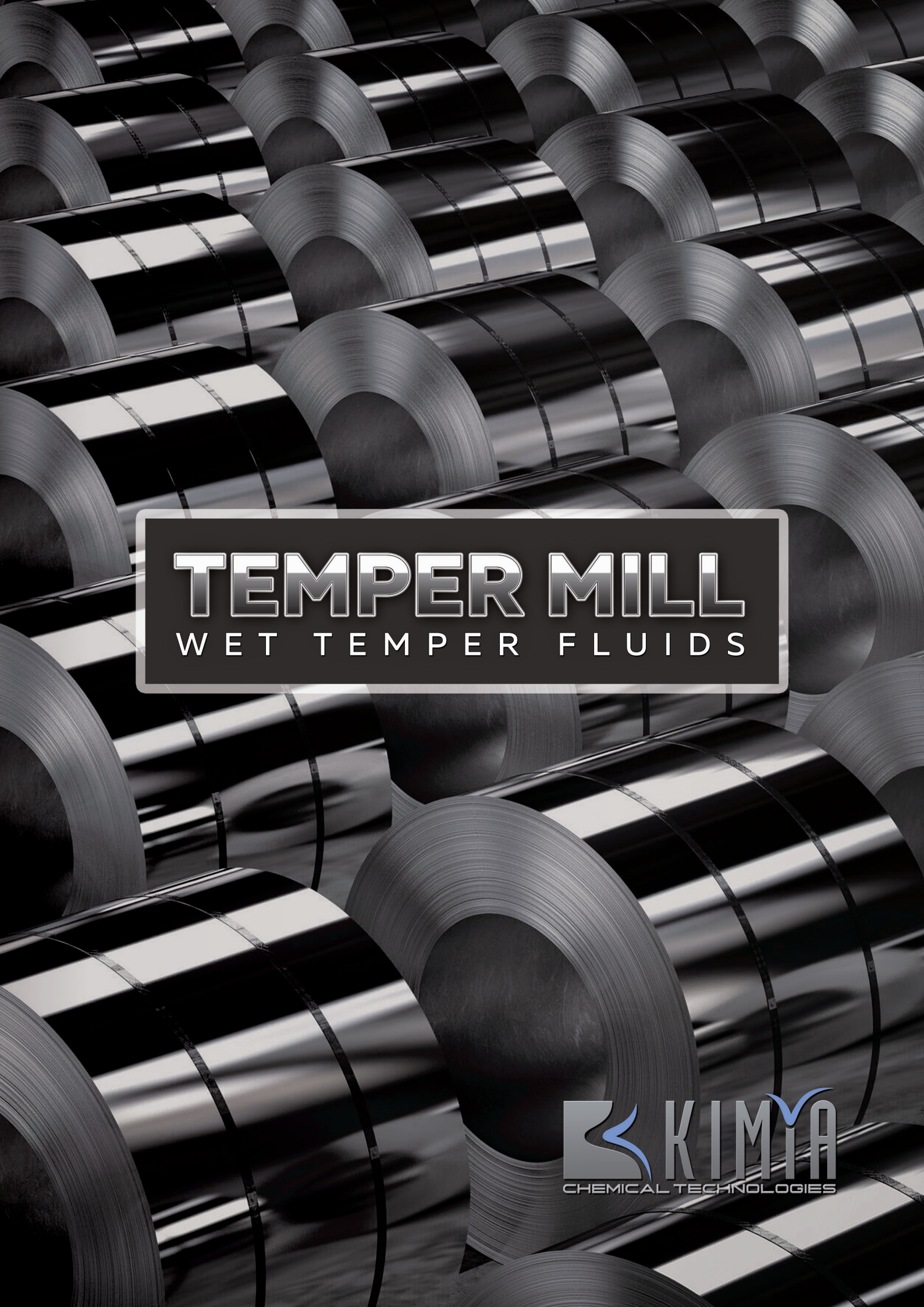


The background of the entire image is a high-contrast, black and white photograph of numerous large metal coils, likely steel or aluminum, stacked in rows. The perspective is from a low angle, looking down at the coils, which creates a strong sense of depth and repetition. The lighting highlights the metallic texture and the curved surfaces of the coils.

TEMPER MILL

WET TEMPER FLUIDS

The logo for KIMYA Chemical Technologies is located in the bottom right corner. It features a stylized blue and grey icon to the left of the word "KIMYA" in a bold, sans-serif font. Below "KIMYA" is the phrase "CHEMICAL TECHNOLOGIES" in a smaller, all-caps, sans-serif font.

KIMYA
CHEMICAL TECHNOLOGIES

TEMPER MILL

WET TEMPER FLUIDS

Water-based, Boron and Nitrites-free formulations designed specifically for Clients aiming at superior strip cleanliness to penetrate high value market segments.

Besides the detergency properties, Kimya Wet Temper Fluids ensure excellent corrosion protection from trapped water.

After annealing, cold rolled material is sent to the **TEMPER MILL** to improve flatness, provide proper temper, elongate the strip to eliminate “*stretcher strain*” and roll the proper surface finish.

After temper rolling, the steel is either shipped to a customer or sent to a shearing, slitting or other finishing operation prior to shipment.

In last decades, increasing demand for high quality steel has been a major driver for steel mills to improve product quality in terms of cleanliness, surface finish and flatness.

Wet Temper Fluids – Kimya Technology

Tempering operations may differ significantly depending on end user requirements and upstream process.

Kimya has a comprehensive line of products to cover any Client requirement. Kimya R&D Dept can also develop custom-made formulations to achieve the right compromise between conflicting requirements:



Resolving corrosion-related issues up to the possibility to sell non-oiled coils that require temper fluids with high corrosion protection properties.



Reduce HSE impact by discontinuing use of Boron/Nitrites-containing products.



Improving strip cleanliness.



Strip lubrication to obtain significant elongations



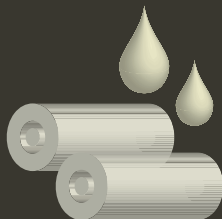
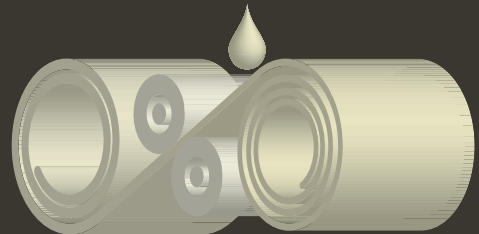
Performance Requirements

Wet Temper Fluids are water-soluble compounds applied in the entry section of the mill at concentration of 2-5%.

Several performance requirements are expected from a Wet Temper Fluid:

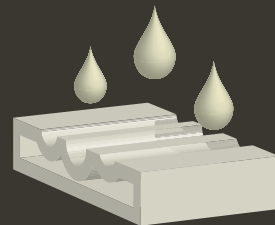
LUBRICITY

Sometimes physical and mechanical properties of the steel are achieved at the **TEMPER MILL** by taking elongations. Lubrication can be provided through adjustments in the Wet Temper fluid additive package.



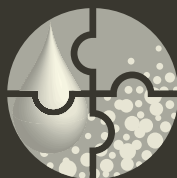
DETERGENCY

Improve strip cleanliness and prevent dirt pick-up on the rolls.



CORROSION PROTECTION

Air wipes malfunctioning might allow temper fluid solution to be wrapped up in the coils.



COMPATIBILITY WITH RUST PREVENTIVE OIL

No interference with the protective oil applied at the exit section.



Health



Safety



Environment

HSE ASPECTS

Free of Boron, Nitrites and other toxic substances.



KIMYA Srl

Legal and Operating Office

Via dei Marmisti, 10/A Z.I.
70026 - Modugno (BA) - Italy

Contact details

 +39.080.9146193

 +39.080.9146362

 info@kimya.it



www.kimya.it

