

REFERENCE PROJECT | Reducing Nickel Salt Consumption Yields Outstanding Results

Taking bigger steps...
to leave a smaller footprint

The combination of a water softener and a MacDermid Envio Nickel recovery system yielded outstanding results for a German storage solutions manufacturer.



„I am very happy that we opted for a NiCycle. The system is not only low-maintenance, it also works flawlessly, saves us a lot of time and reduces our water consumption considerably. In addition, in situ nickel sulfate production also saves us money.“

Hartmut Birth, Plating Manager

THE CHALLENGE

Enhancing Sustainability

A German metal processing manufacturer aimed to enhance sustainability by reducing nickel salt consumption and minimizing its wastewater impact. This initiative promised significant environmental benefits while lowering operating costs.

THE MACDERMID ENVIO SOLUTION

Combined Solution

The manufacturer operates two Copper, Nickel, and Chrome plating facilities with separate wastewater streams. To tackle nickel salt consumption, they chose MacDermid's nickel recovery system, NiCycle.

However, high calcium levels in the water supply hindered optimal performance. Drawing on experience with similar cases, MacDermid recommended installing a water softener to resolve the issue.

THE RESULT

Impressive Outcomes

- Over 1.5 tons of nickel sulfate recovered monthly
- Consistently excellent plating quality
- Minimal labor required for operation
- Algae formation eliminated
- Rinse dump frequency reduced from weekly to monthly, increasing nickel rinse concentrations and improving NiCycle efficiency

This innovative solution combines sustainability with cost savings, showcasing the impact of effective nickel recovery.



See our web site for more details
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