



A New Approach to Copper and Nickel Recovery

Lancy Technology has developed a stand-alone technology that recovers copper and nickel with a metal purity of 99.9% and 99.5% respectively, whilst also overcoming the challenge of meeting low discharge limits.

Nickel and copper is used widely in the printed circuit board, plating on plastics and general metal finishing industries. For many years various technologies have been promoted to recover both nickel and copper at source. Dragout rinses are operated with electrolytic cells to recover the metal plated either on a reticulated or spinning cathode, alternatively recovery in a barrel electrowinning system have been considered.

In the past Lancy has supplied this traditional technology for small metal loads of 1 to 15 kg/day. The applications have been limited by metal purity, current efficiency and recoverable value of the plated metal.

Other alternatives such as producing a mono hydroxide sludge of the base metal have also been explored and implemented in the past, but in this case the value recovered is only the cost reduction for sludge disposal, and not extracting the real value of the waste metal produced by the plating operation.

Lancy Technology has developed a stand-alone technology that addresses not only the issue of meeting low discharge limits, but also recovers copper and nickel with a metal purity of 99.9% and 99.5% respectively.

The recovered metal requires no additional purification steps and can be sold on the open metals market to yield 95% of the LME value. Lancy achieve this with a combination of segregated rinse techniques, high performance ion exchange technology and refinery based electrowinning processes that can recover between 50 to 500 kg/day of high purity copper and nickel.



- Recover copper and nickel with a metal purity of 99.9% and 99.5% respectively
- Low discharge limits met
- No additional purification required
- Recovered metals yield 95% of the LME value
- Recover between 50 to 500kg/ day of high purity copper and nickel

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