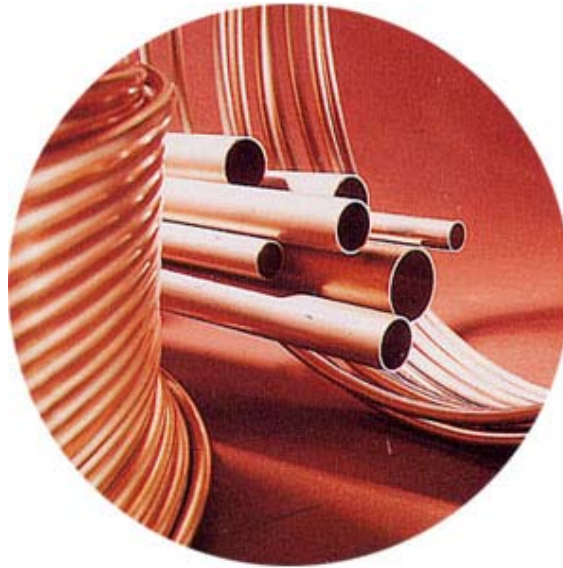
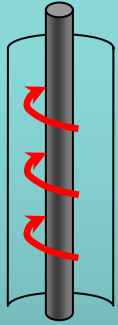


EMEW® ELECTROWINNING FOR PROFIT



EMEW®

COPPER FABRICATION

Clean & Efficient Metal Recovery

Electrometals Technologies Limited

EMEW® is a remarkably efficient metal recovery technology that elevates recovery of copper from pickling and general waste solutions to a commercial enterprise. The benefits are:

- Copper recovery in a single step
- Reduction of disposal costs
- High copper purity
- Re-locatable (modular) plant
- High tolerance to impurities
- No expensive reagents required
- Depletion down to a few ppm
- Extension of bath life
- Total gas capture
- Clean, efficient and safe characteristics

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EMEW® CHARACTERISTICS

EMEW® simplifies the process of recovering metals by electrolysis (electrowinning). The basic principles of electrowinning are applied in many mining and metal treatment plants around the world. However, in conventional usage, the process is restricted in application due to limitations in operating versatility and high capital cost.

EMEW® is capable of direct electrowinning of high-grade copper cathode or powder directly from industrial pickling solutions and similar waste products.

By integrating the EMEW® technology into bath operations, an elegant process of continuous metal recovery can be achieved whilst maintaining consistent bath conditions. This simple process eliminates the need for expensive reagents, reduces waste tonnage and, in a single step, transforms waste metal back into product.

There is an increasing requirement for the localised (on-site) treatment of industrial waste solutions. The reasons for this are not just environmental. Disposal costs for treating waste streams have increased dramatically in recent years, with the trend set to continue. The robust design of EMEW®, coupled with a small footprint, enables the technology to be retrofitted in any industrial setting.

The EMEW® technology is ideally suited to pickling and plating applications, as very high efficiency is maintained down to very low levels of copper concentration. This results in maximum copper recovery, whilst maintaining cost effectiveness in the recovery process.

EMEW® outperforms conventional electrowinning technology through a simple process of accelerating the rate at which metal ions are presented to the surface of the cathode. This significantly increases plant efficiency resulting in lower cost, higher performance levels, increased process versatility and a variety of other economic benefits.



EMEW® is a global entity with affiliate sales & technical support offices in Australia, Brazil, Canada, Chile, Italy, Singapore and USA.

To locate a contact near you, visit our webpage:
www.electrometals.com.au

Electrometals Technologies Limited

EMEW®'s Value Add

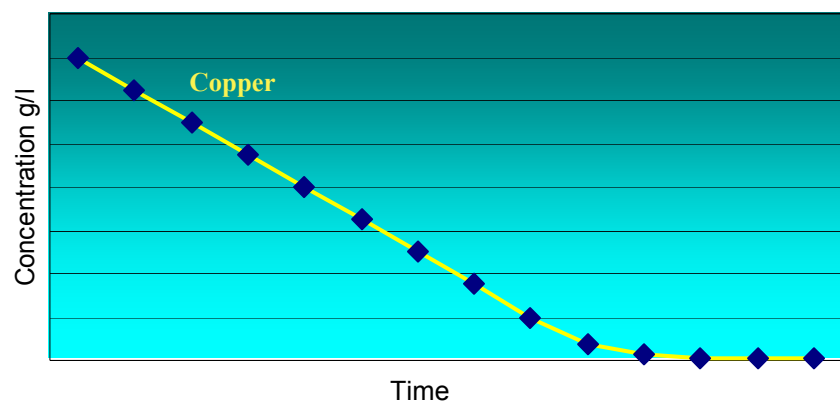
An EMEW® recovery system has a typical payback of 18 months or less.

EMEW® Advantage

- ◆ Robust Design
- ◆ No ventilation required
- ◆ Total gas capture
- ◆ Recovery in a single step
- ◆ Low depletion limits
- ◆ Small efficient plant
- ◆ No chemical additions
- ◆ Modular construction
- ◆ Low maintenance
- ◆ No moving parts

The EMEW® technology is capable of recovering many metals including Platinum, Gold, Silver, Nickel, Cobalt, Copper, Tin, Zinc and Cadmium. The broad range of applications to which EMEW® is ideally suited has resulted in EMEW® installations in North America, South America, Europe, Africa, Asia and Australia.

Typical EMEW® Copper Depletion Profile



Electrometals Technologies Limited provides a full range of products and services to the metal recovery industry; from flowsheet development and process engineering to "total package" turnkey projects.



" EMEW cells are equipped with Dimensionally Stable Anodes (D.S.A.®) manufactured by De Nora Elettrodi Network. D.S.A.® is a registered trade mark of D.N.E. S.p.A."

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