

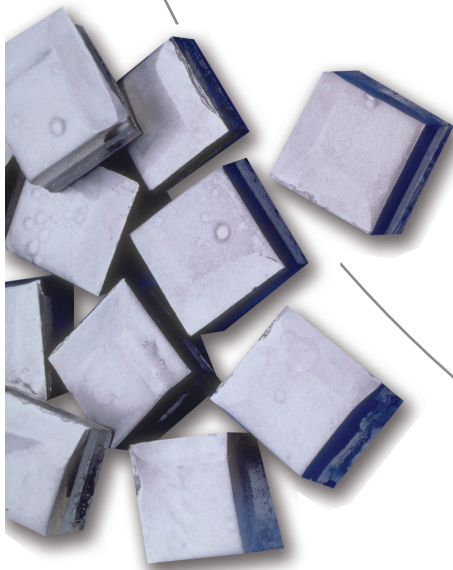
Vale Inco Electrolytic Nickel (Squares)

Ni



Vale Inco Electrolytic Nickel for Plating is a high-purity non-activated primary form of nickel produced by electrowinning. The electrowinning process yields full sized cathodes that are sheared into squares of various cut sizes.

The preferred size for plating with anode baskets is 25mm by 25mm. The larger squares are used less frequently for plating because of the greater tendency to bridge and create voids in the basket load.



Being non-activated, Electrolytic Nickel Squares require chlorides to be present in the electroplating solution to dissolve at 100% anode efficiency.

Squares dissolve non-uniformly with the formation of small amounts of metallic residue.

The controlled and consistent purity of Vale Inco Electrolytic Nickel and its thickness make these products attractive for general purpose plating.

Quality Management Systems for the production, packaging and marketing of Vale Inco Electrolytic Nickel for Plating have been registered and comply with the requirements of ISO Standard 9001:2000.

Vale Inco Limited
Suit www.valeinco.com

Typical Specifications

Form

- Squares about 25 mm by 25 mm (1 in. by 1 in.)
 - Squares about 100 mm by 100 mm (4 in. by 4 in.)
- Thickness approximately 15 mm.

Packaging

- 250 kg (551 lb) steel drums; 4 drums per pallet. Net weight 1000 kg (2204 lb).
- The 25 mm by 25 mm squares are also available in 10 kg (22 lb) plastic bags; 5 bags per box; 20 boxes per pallet; stretch-wrapped. Net weight 1000 kg (2204 lb).

Typical Chemical Analysis (percent)

Nickel plus cobalt 99.99	
Cobalt 0.048	Sulfur 0.0002
Copper 0.008	Arsenic 0.0009
Carbon 0.002	Lead 0.0004
Iron 0.0004	Zinc 0.0001

Exceeds the chemical requirements of ISO 6283, NR 9980 and ASTM B 39.