



S-Rounds

Vale (formerly INCO®) S-Rounds® electrolytic nickel is the world's most popular activated anode material with a unique shape that makes it ideal for plating with baskets. Activation is imparted by codepositing a small, controlled amount of sulfur with the nickel during the electroplating process.

Vale S-Rounds® electrolytic nickel has all the advantages associated with enhanced anode activity; smooth, uniform dissolution, 100% anode efficiency in all nickel plating solutions, even those without chlorides, absence of metallic residues; and, low dissolution potentials at high current densities. The lower resistance to current flow compared to sulfur-free nickel accounts for significant power and cost savings in the plating shop.

The sulfur in this product does not enter the solution but forms an insoluble nickel sulfide residue that is retained in the anode bag where it acts to remove unwanted copper impurities from the plating solution.

The advantages associated with its shape, such as improved settling in baskets, safe handling, and improved flow ability compared to squares of various sizes, combined with its enhanced anodic activity have made this versatile product the world's most popular activated anode material.

Quality management systems for the production, packaging and marketing of S-Rounds® electrolytic nickel have been registered and comply with the requirements of ISO Standard 9002-94

Forms

Button-shaped pieces of nickel approximately 25 mm (1.0 in) diameter and about 6.5 mm (.25 in) thickness.

Packaging Density

About 4.6 kg/dm³ (0.17 lb/in³) of basket capacity.

Typical Chemical Analysis (percent)

Nickel plus Cobalt - 99.995

Cobalt	0.05	Sulfur	0.023
Copper	0.001	Arsenic	0.001
Carbon	0.003	Lead	0.0003
Iron	0.0004	Zinc	0.0003

Exceeds the chemical requirements ASTM B 39 and ISO 6283, NR9980, except for the sulfur content.

Packaging

10kg (22 LB) plastic bags ; 5 bags per box, 20 boxes per pallet, stretch-wrapped. Net weight 1000 kg (2204 lb).

250KG (551 LB) steel drums ; 4 drums per pallet; stretch-wrapped. Net weight 1000 kg (2204 lb).

