



Electrolytic Nickel S-Rounds™

Vale™ Electrolytic Nickel S-Rounds™ are a high purity form of sulfur-activated nickel specifically designed for electroplating with titanium anode baskets – especially in chloride-free plating baths.

The sulphur in this product does not enter the plating solution; it forms an insoluble nickel sulphide residue, which is 100% contained using cloth anode bags, where it acts to remove unwanted copper impurities.

The controlled and consistent quality of S-Rounds™, their distinctive shape and size, and the advantages of sulfur activation make Vale™ S-Rounds™ ideally suited for high-end electroplating applications (e.g. high-speed engineering, electronics, electroforming):

- High purity
- Sulfur activation promotes uniform dissolution and low operating voltage, even in chloride-free plating baths
- Unique shape prevents the formation of bridges and voids in the basket
- Unique shape ensures good solution flow and mixing through the basket
- Settles uniformly in basket, ensuring uniform current density and high quality deposits
- Flows easily into regular and shaped baskets of various mesh sizes
- Safe to handle (no sharp edges)
- Dissolves at 100% anode efficiency in common nickel plating solutions – with or without chlorides
- Produces minimal metallic residues upon dissolution
- Proven and trusted by the world's leading electroplaters

S-Rounds™ are produced by electrolytic refining at Vale's Thompson Nickel Refinery in Manitoba, Canada, in accordance with ISO 9001:2008 standards.



**10 kg bags, 5 bags per box,
20 boxes per pallet**

Typical Specifications

Form

- Button-shaped pieces of nickel
- Diameter: approximately 25 mm
- Thickness: approximately 6.5 mm

Packing Density

Approximately 4.6 g/cm³ of basket capacity

Packaging

- 10 kg bags, 5 bags per box, 20 boxes per pallet (1,000 kg net weight)
- 250 kg steel drums, 4 drums per pallet

Chemical Analysis (wt %)

Ni*	>99.90
Co	<0.065
Cu	<0.0008
C	<0.0035
Fe	<0.0003
S	~0.019 - 0.025
As	<0.0015
Pb	<0.0003
Zn	<0.0002

*Nickel determined by difference.

For further information about our products, please visit our website (www.vale.com) or contact a regional sales representative.



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