

Nickel Anode S-Pellets®

Vale S-Pellets® are a fully activated nickel material ideally suited for surface finishing applications using anode baskets. The S-pellets are spherical in shape and produced through the carbonyl refining process which is designed to retain a small, closely controlled amount of sulphur in the nickel sphere to maximize its electrochemical activity.

Being fully active, Vale S-Nickel Pellets® dissolve smoothly at 100% efficiency in all nickel plating solutions including those without chloride ions. Due to its activity, it has a lower resistance to current flow compared to sulphur-free nickel.

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

The unique spherical shape of Vale S-Pellets® ensures a degree of flowability unmatched by any other form of plating nickel, and this property makes it relatively easy for the installation of automatic loading systems that improve loading speed and safety.

The relatively high packing density coupled with its exceptional flowability and activity makes this product attractive for all types of plating, especially for high-speed engineering and electroforming applications.

Quality management systems for the production, packaging and marketing of Vale® S-Nickel Pellets® have been registered and comply with the requirements of ISO Standard 9002-94.

Form

Spherical pieces of nickel 6 to 14 mm (0.25 to 0.6 in.) diameter.

Packaging Density

About 5.4 to 6 kg/dm³ (0.20 to 0.22 lb/in.³) of basket capacity.

Analysis: Measured in ppm

Parameter	Typical
Nickel	> 99.96%
Carbon	< 5 ppm
Cobalt	0.5 ppm
Copper	1 ppm
Iron	6 ppm
Lead	< 2 ppm
Sulfur	260 ppm
Zinc	< 0.5 ppm

Exceeds the requirements of ISO 6283, NR9995; BS 375, R 99.95 and ASTM B 39, except for the sulphur content. Nickel by difference.

Packaging 10Kg (22 LB.) plastic bags - 5 bags per box - 20 boxes per pallet or 1000 Kg Super sack

Storage /Safety

Store in a cool dry area away from foodstuffs.

Shelf Life - Indefinite

