



**PLATING INTERNATIONAL, INC.**

CHANGING THE WORLD OF PLATING!!!

# Electrolytic Nickel



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**Plating International, Inc.**

**An ISO 9001: 2008, ISO 14001: 2008 Certified Company**

11142 Addison Avenue, Franklin Park, IL 60131

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## Electrolytic Nickel R-Rounds

Electrolytic Nickel R-Rounds are a high purity form of nickel specifically designed for electroplating with titanium anode baskets.

The controlled and consistent quality of R-Rounds and their distinctive shape and size make them ideally suited for general purpose plating with titanium anode baskets:

- High purity
- Unique shape prevents the formation of bridges and voids in 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 (containing chlorides)
- Produces minimal metallic residues upon dissolution
- Proven and trusted by the world's leading electroplaters



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## Typical Specifications

### Form

- Button-shaped pieces of nickel
- Diameter: approximately 23 mm
- Thickness: approximately 8 mm

### Packing Density

Approximately 4.3 g/cm<sup>3</sup> of basket capacity

### Packaging

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



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



250kg drums,  
4 drums per pallet



2 tonne bag

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## Chemical Analysis (wt%)

Ni*	>99.90
Co	<0.08
Cu	<0.0009
C	<0.0035
Fe	<0.0002
S	<0.0002
As	<0.002
Pb	<0.0003
Fe	<0.0002

\*Nickel determined by difference.



## Electrolytic Nickel Squares (1x1)

Nickel Squares are cut from full size cathodes produced by electrolytic refining. The controlled and consistent quality of the refining process have established Electrolytic Nickel Squares as an industry standard for general purpose electroplating:

- High purity
- Thickest cathode available (~15 mm)
- Smooth, shiny and defect-free surface
- Produces minimal metallic residues upon dissolution
- Dissolves at 100% anode efficiency in common nickel plating solutions (containing chlorides)
- Added directly to titanium anode baskets
- Proven and trusted by the world's leading electroplaters



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## Typical Specifications

### Form

- Square-shaped pieces of nickel
- Diameter: 25 mm x 25 mm (1" x 1")
- Thickness: approximately 15 mm

### Packing Density

Approximately 4.6 g/cm<sup>3</sup> of basket capacity

### Packaging

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



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



250kg drums,  
4 drums per pallet

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## Chemical Analysis (wt%)

Ni*	>99.91
Co	<0.06
Cu	<0.001
C	<0.0035
Fe	<0.0002
S	<0.0002
As	<0.0013
Pb	<0.0003
Zn	<0.0002

\*Nickel determined by difference.

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## Electrolytic Nickel S-Rounds

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 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 S-Rounds ideally suited for high-end electroplating applications (eg. 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 (containing chlorides)
- Produces minimal metallic residues upon dissolution



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## Typical Specifications

### Form

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

### Packing Density

Approximately 4.6 g/cm<sup>3</sup> of basket capacity

### Packaging

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



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



250kg drums,  
4 drums per pallet

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## 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.

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## Nickel S-Pellets

Nickel S-Pellets are a high purity form of sulphur-activated nickel widely used for electroplating with titanium anode baskets. S-Pellets are produced by a unique carbonyl gas refining process.

The controlled and consistent purity of S-Pellets and the advantages associated with its distinctive shape and sulphur activation make this product attractive for high-end plating (eg. high-speed engineering, electronics, electroforming) with titanium anode baskets:

- Carbonyl refining produces the purest form of nickel available
- Sulfur activation promotes uniform dissolution and low operating voltage, even in chloride-free plating baths
- Settles uniformly in basket, ensuring uniform current density and high quality deposits
- Flows easily into regular and shaped baskets with standard mesh sizes
- Ideal for use with automated basket loading devices
- Safe to handle (no sharp edges)
- Dissolves at 100% anode efficiency in common nickel plating solutions - with or without chlorides
- Dissolution produces minimal metallic residues

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.



## Typical Specifications

### Form

- Spherical pieces of nickel
- Diameter: approximately 6 - 14 mm

### Packing Density

Approximately 5.4 g/cm<sup>3</sup> of basket capacity

### Packaging

- 10kg bags, 5 bags per box, 20 boxes per pallet (1,000 kg net weight)
- 1 tonne bulk bags



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



1 tonne bag

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## Chemical Analysis (wt%)

Ni*	>99.97
Co	<0.00002
Cu	<0.0001
C	<0.005
Fe	<0.004
S	~0.022 - 0.030
Pb	<0.000001
Zn	<0.00002

\*Nickel determined by difference.

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