

Long Harbour Nickel Melt Rounds

Nickel Melt Rounds are a high purity form of nickel suitable for melting applications. Long Harbour Nickel Melt Rounds are manufactured by electrolytic refining at Vale's Long Harbour Processing Plant in Newfoundland, Canada.

The controlled and consistent purity of Nickel Melt Rounds and their distinctive shape make this product ideal for demanding melting applications.

The main characteristics of this product are:

- High purity, consistent composition, low impurity levels allow for its addition at any stage of the alloy-making process.
- The chemical composition and shape allow for its addition as a primary feed material in the BOF, EAF, AOD and induction furnaces or for fine tuning additions in ladle metallurgy stations.
- The shape results in easily controlled flow and permits superior handling characteristics in semi- and fully-automated handling operations, such as transfer from bulk storage to weighing and furnace charging stations.
- The solid metallic nature of the product ensures there is no breakage and dusting so there will be no losses during handling.
- Produced in compliance with the ISO 9001:2015 quality and ISO 14001:2015 environmental management standards.
- Assured to the Copper Mark Joint Due Diligence Standard, in accordance with OECD Due Diligence Guidance for Responsible Supply Chains.
- Carbon intensity is 12.3 t CO₂e/t Ni, including scopes 1, 2, and 3 (upstream) emissions as of the most recent assessment year (2023)¹. Carbon intensity is reassessed on a regular basis.

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



2 tonne bag
(89cm x 89cm x 115cm)

Disclaimer: The product descriptions and specifications contained in this document are made in accordance with our analyses and the methods used to produce Vale's nickel products. While these descriptions and specifications are reflective of normal production lots, rather than each individual piece, such descriptions and specifications shall in no event be deemed or interpreted as any representation, warranty or commitment by Vale in connection with Vale's nickel products quality. Vale's nickel products quality shall be determined only in accordance with the corresponding contract terms for each transaction agreed between Vale and Vale's customer and the quality related certificate issued under such contract.

¹Independent third-party limited assurance to the general principles of ISO 14064-3 has been provided by Intertek Health Sciences Inc. Emissions allocated by economic value.

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Product Description

Form

- Button-shaped pieces of nickel
- Diameter: ~ 25-35 mm
- Thickness: ~ 4-15 mm
- Weight per piece: ~ 26-32 grams

The packaged product may contain a few diverse sized pieces.

Packaging

- 2 tonne bags on wooden pallets

Typical analysis (wt %)

Ni*	≥99.9
C	≤0.010
Co	≤0.05
Fe	≤0.003
S	≤0.0010
Bi	≤0.0001
Cu,As,Si,Zn**	≤0.0005
Pb,Sb,Sn,Mg,Mn,P**	≤0.0002

*Nickel determined by difference.

**for each element listed

Chemical composition meets and exceeds ASTM B39.