



Nickel Discs™ (Canada)

Nickel Discs™ are a high purity form of nickel widely used in melting applications. Nickel Discs™ are produced by a carbonyl refining process at the Copper Cliff Nickel Refinery in Sudbury, Canada.

The controlled and consistent purity of Nickel Discs™ and the advantages associated with its distinctive shape make this product an industry standard for a wide range of demanding melting applications:

- Carbonyl refining produces one of the purest forms of nickel available, allowing for its use in a variety of applications including austenitic stainless steels, low alloy steels, nickel and copper base alloys and cast irons, such as Ni-Hard and Ni-Resist
- High nickel content and low impurity levels allow for its addition as a primary feed material in BOF, EAF, AOD and induction furnaces or for fine tuning additions in ladle metallurgy stations
- Solid metallic nature of product ensures no breakage, dusting and resultant losses during handling
- Distinctive shape results in high packing density, easy flow and permits semi- and fully-automated handling operations
- Carbon intensity is 7.3 tCO₂e / t Ni. This calculation includes scopes 1 and 2, as well as upstream scope 3 emissions.

Nickel Discs™ are produced in compliance with the following ISO standards: ISO 9001:2015.

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



2 tonne bag

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.

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Product Description

Form

- Disc shaped
- Diameter: approximately 14 - 18 mm
- Thickness: approximately 3.5 - 5.5 mm
- Bulk density: approximately 4.9 - 5.6 g/cm³

Packaging

- 2 tonne bags
- Bulk shipments

Typical analysis (wt %)

Ni*	≥99.98
C	≤0.007
O	≤0.007
Fe	≤0.001
Ca, Cu, N, Na, S, Si	≤0.0005**
Al, As, Bi, Cd, Co, Mn, Mg, P, Pb, Sn, Sb, Zn	≤0.00005**

* Nickel determined by difference.

** For each element listed.