

# Nickel Pellets (UK)

Nickel Pellets are a high purity form of nickel widely used in melting applications. Nickel Pellets are produced by a carbonyl refining process at the Clydach Nickel Refinery in the UK.

The controlled and consistent purity of Nickel Pellets and the advantages associated with its distinctive shape make this product an industry standard for the production of high nickel alloys and iron-base alloys:

- Carbonyl refining produces one of the purest forms of nickel available, allowing for its use in the most demanding applications in the aerospace, electronic and nuclear industries.
- High nickel content and low impurity levels allow for its addition at any stage of the alloy making process.
- Distinctive shape results in high packing density, easy flow and permits semi- and fully-automated handling operations, such as transfer from bulk storage to weighing and furnace charging stations.
- Carbon intensity is 33.1 t CO<sub>2</sub>e/t Ni, including scopes 1, 2, and 3 (upstream) emissions as of the most recent assessment year (2020).<sup>1</sup> Carbon intensity is reassessed on a regular basis.

Nickel Pellets are produced in compliance with the following ISO standards: ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.

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



250 kg drums,  
4 drums per pallet



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.

<sup>1</sup>Independent third-party limited assurance to the general principles of ISO 14064-3 has been provided by Intertek Certification GmbH.

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## Product Description

### Form

- Spherical
- Diameter: <20 mm
- Bulk density: approximately 5.4 – 5.8 g/cm<sup>3</sup>

### Packaging

- 250 kg drums, 4 drums per pallet
- 1 tonne drums
- 2 tonne bags

### Typical analysis (wt %)

Ni*	≥99.98
C	≤0.015
Fe, O	≤0.01**
Ca, Cu, N, Na, S, Si	≤0.0005**
Al, As, Bi, Cd, Co, Mn,	≤0.00005**
Mg, P, Pb, Sn, Sb, Zn	

\* Nickel determined by difference.

\*\* For each element listed.