



High resolution SEM image of Chemical Grade Nickel Powder

Chemical Grade Nickel Powder (UK Standard Grade)

CGNP™ is a high purity nickel powder developed specifically for dissolving applications. CGNP™ is produced by a unique carbonyl gas refining process at the Clydach Nickel Refinery in the UK.

CGNP™ is recognized as an industry standard nickel feed for the production of high purity nickel solutions or salts for use in electroplating, Li-ion batteries, catalysts and other demanding applications:

- Carbonyl refining produces the purest form of nickel available
- Low iron and sulphur content reduces the need to purify nickel product solutions
- Fine, uniform size distribution results in faster dissolution than other nickel feed sources
- Non-explosive and non-flammable
- Preferred nickel feed for the production of nickel sulphamate
- Carbon intensity is 33.1 tCO₂e / t Ni. This calculation includes scopes 1 and 2, as well as upstream scope 3 emissions.

CGNP™ is also used in metallurgical applications (i.e. welding applications) that do not require tight particle size distribution.

CGNP™ is produced in compliance with the following standards: ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018.

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



1 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

- Fisher sub-sieve size: no spec
- Bulk density: no spec
- Sieve test: ≤0.05 wt% +16#

Packaging

- 1 tonne bulk bags

Typical analysis (wt %)

	Typical	Max
Ni*	>99.8	–
Co	<0.00005	–
C	<0.1000	0.20
Fe	<0.0030	0.01
S	<0.0002	0.002
O	<0.0400	0.15
N	<0.0050	–

* Nickel determined by difference.