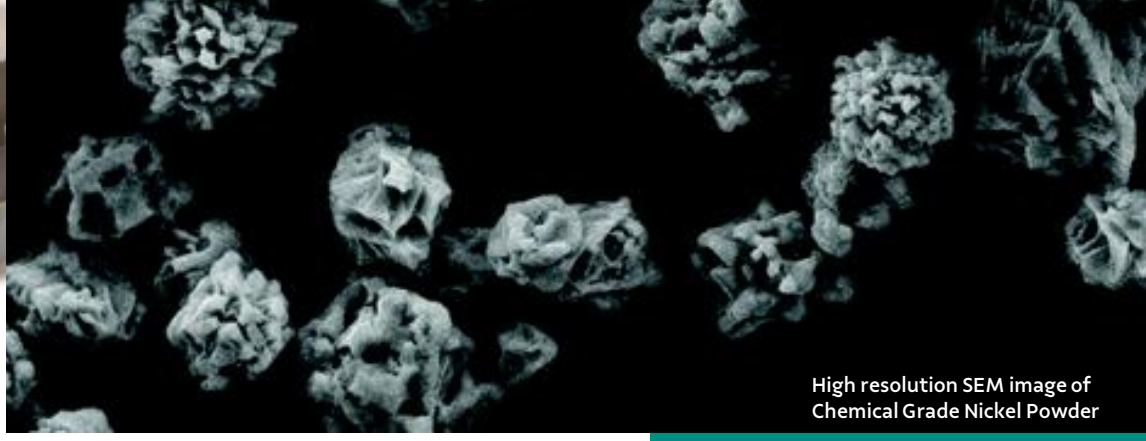

High resolution SEM image of Chemical Grade Nickel Powder

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.
- Assured to the Copper Mark Joint Due Diligence Standard, in accordance with OECD Due Diligence Guidance for Responsible Supply Chains.
- Carbon intensity is 38.3 t CO_2e/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.

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

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.

[1]Independent 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.

VALE