



## T255™ Nickel Powder

T255™ is a high purity nickel powder with a fine, three-dimensional filamentary (“chain-like”) structure. T255™ is produced by a unique carbonyl gas refining process at the Clydach Nickel Refinery in the UK.

T255™ is recognized as an industry standard feed for the production of sintered rechargeable battery electrodes:

- Sinters readily to form a conductive, open porosity network
- Uniform size distribution and density results in controlled porosity in sintered electrodes and other porous structures
- Porosity-strength relationship of sintered T255™ is well understood, enabling tailoring of porous structure

T255™ is widely used as a conductive additive in:

- Batteries and fuel cells
- Pigments in coatings, especially for electromagnetic interference (EMI) shielding applications
- Polymers for electronic applications to provide electrical conductivity

T255™ is also used in powder metallurgical applications, as the filamentary structure can be broken down into fine primary particles.

T255™ is produced in compliance with the following ISO standards: ISO 9001:2015, ISO 14001:2004 and OHSAS 18001:2007.

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



75 kg drum

### Product Description

#### Form

- Fisher sub-sieve size: 2.2 - 2.6  $\mu\text{m}$
- Bulk density: 0.50 - 0.58  $\text{g/cm}^3$
- Sieve test:  $\leq 0.8 \text{ wt\% } +100\#$

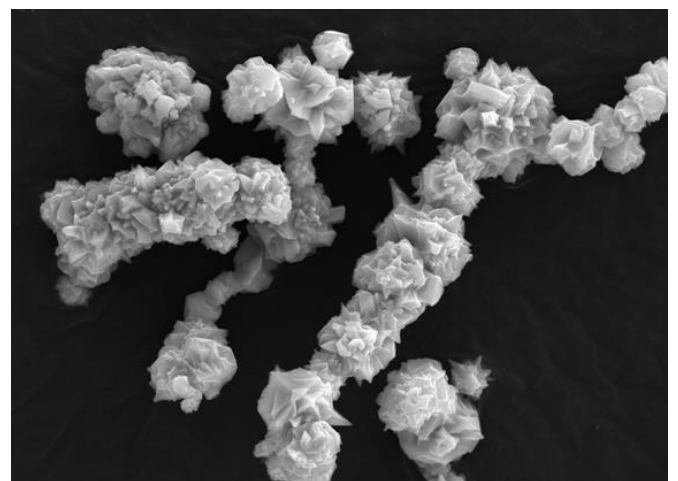
#### Packaging

- 75 kg steel drums, 6 or 12 drums per pallet

#### Typical Analysis (wt %)

	Typical	Max
Ni*	>99.7	--
Co	<0.00005	--
C	<0.2000	0.25
Fe	<0.0030	0.01
S	<0.0002	0.001
O	<0.0750	0.15
N	<0.0100	--

\*Nickel determined by difference.



High resolution SEM image of T255™ nickel powder