



T123™ Nickel Powder (UK Drums)

T123™ is a high purity nickel powder composed of discrete nickel particles having a spiky morphology. T123™ is produced by a unique carbonyl gas refining process at the Clydach Nickel Refinery in the UK.

T123™ is recognized as an industry standard nickel powder for powder metallurgy applications:

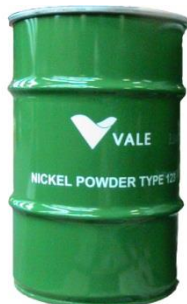
- Spiky, needle-like texture designed specifically for powder metallurgy applications
- Tight size distribution optimized for easy mixing and excellent mechanical properties of sintered parts
- Uniform dispersion provides repeatable dimensional change of sintered parts
- Strengthens and toughens to improve fatigue strength
- Hardens heat-treated steels

T123™ is also widely used as a metal binder:

- Enhances corrosion resistance and toughness of hard metals
- Strengthens and toughens diamond tools
- Wets and aids the densification of tungsten heavy alloys

T123™ is produced in compliance with the following standards: ISO 9001:2015, ISO 14001:2004 and OHSAS 18001:2007.

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



200 kg drum

Product Description

Form

- Fisher sub-sieve size: 3.8 - 7.0 μm
- Bulk density: 1.8 - 2.6 g/cm^3
- Sieve test: $\leq 0.1 \text{ wt\% } +200\#$

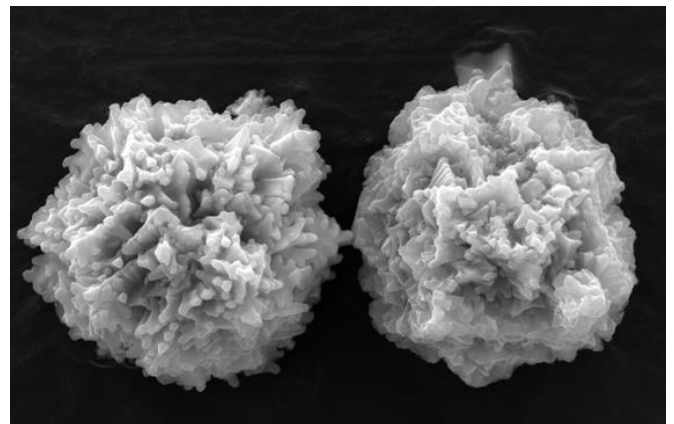
Packaging

- 200 kg steel drums, 6 drums per pallet

Chemical Analysis (wt %)

	Typical	Max
Ni*	>99.8	--
Co	<0.00005	--
C	<0.0750	0.1
Fe	<0.0030	0.01
S	<0.0002	0.001
O	<0.0400	0.15
N	<0.0050	--

*Nickel determined by difference.



High resolution SEM image of T123™ nickel powder