



Tonimet®

Tonimet® is a high quality nickel feed material specifically designed for stainless steel, low alloy steel and nickel alloy producers. Tonimet® is produced by a proprietary refining process at the Matsusaka Refinery in Japan.

Tonimet® has been engineered to deliver high nickel content, low residual impurities, excellent handling characteristics, low dusting tendency, high throughput and low manufacturing costs:

- Available as granules, briquettes or compacts to accommodate any configuration of alloy charging system
- Unique shape and size of briquettes and compacts designed for easy handling with automated charging systems without rolling, bridging or dusting losses
- High nickel content and low impurity levels allow for its additions at any stage of the alloy-making process
- Unique shape and high nickel content allows for precise control of nickel additions to satisfy the most stringent quality requirements and to minimize the risk of overcharging excess nickel
- Optimal size ensures fast melting and minimum energy consumption during electric arc furnace melting
- Minimum heat losses as a convertor additive ensures maximum decarburization efficiency and minimum refining time
- Available in two nickel grades

Tonimet® is produced in compliance with the following ISO standards: ISO 9001:2008 and ISO 14001:2004.

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



granules



briquettes



compacts

Typical Specifications

Form

- Granules: 10 - 100 mesh
0.2 - 0.4 mm (60 - 90%)
0.4 - 0.9 mm (10 - 40%)
- Briquettes: 20 x 30 x 15 mm
- Compacts: 25 x 15 mm (diameter x height)

Packaging

- 2 tonne bags

Typical Chemical Analysis (wt %)

	Tonimet® Briquettes	Tonimet® Compacts
Ni*	~93	~97
Co	~1.3	~1.3
Fe	~0.6	~0.6
Cu	~0.1	~0.1
P	<0.001	<0.001
S	~0.003	~0.003
O	<4	~0.5

*Nickel determined by difference.



2 tonne bag