

# FeNi GRANULES

## SPECIFICATIONS 2016

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Element	Typical (%)	Indicative (%)
Ni	17 – 25	22
Co	1.2 max	0.8
Si	0.02 max	0.01
C	0.02 max	0.01
P	0.020 max	0.002
As	0.15 max	0.10
S	0.25 max	0.22
Cu	0.10 max	0.06
Cr	0.003 max	0.002
Fe	Balance	Balance

### DESCRIPTION

**FeNi** ferronickel is in granulated form and is continuously added into converters and electric furnaces. Each kg of **FeNi** nickel is providing approximately 3 to 4 kg of clean iron. The addition of virgin iron has big advantages to steelworks. The cooling effect in stainless steel process is significantly low and much lower than stainless steel scrap or other nickel forms. Because of its specific chemical characteristics, that is the low carbon content, the contained virgin iron and nickel content in the range of 17-25%, the **FeNi** ferronickel ranks among the best in the world.

### PHYSICAL PROPERTIES

**FeNi** granules are available in shot form:

- Grain size: approx. 3 - 40 mm (95%)
- Bulk density: 3.2 - 3.8 t/m<sup>3</sup>
- Angle of repose: 40 - 50°
- Granules are free from any source of radiation
- Residual humidity: 0.2% max
- The material shall be as free as possible from surface contaminants such as slag, sand, etc.

### PACKAGING & HANDLING

**FeNi** ferronickel is developed for use in automatic handling and storage equipment. It is supplied in bulk form, containers and big-bags (2 tons). It can be added continuously and in exact quantities to all types of equipment in steelworks.

**FeNi** granules can be handled by electro-magnets, buckets, belt conveyors, vibrating conveyors and bucket conveyors. Owing to the physical properties of **FeNi** granules, handling and cleaning out is without loss or pollution of the product. Therefore the cost handling is minimal.

(Updated October 2016)

### APPLICATIONS

Due to its chemical characteristics it can be used for the production of Stainless Steels and in all types of equipment:

- Electric Arc Furnace
- Oxygen Converter / AOD Converter
- Induction Furnace
- VOD Installations

