

High Carbon FerroManganese



>PRODUCT DATA SHEET

1. Appearance

Lumpy, practically odourless material when dry, with a metallic surface that becomes covered with a dark layer of oxides during storage.

2. Effects of the addition of ferromanganese to steel

- Manganese has an important influence on the structure and properties of steel, depending on the amount used and the combined effect with other alloying elements.
- Among all other alloying elements, manganese has the strongest effect on the hardenability of steels.
- Manganese improves the tensile strength, workability, toughness, hardness and resistance to abrasion.
It also reacts with the remaining sulphur in the steel, thus preventing hot shortness.

3. Chemical composition (%)

	Mn	C	P	Si	S
GRADE	min.	range	max.	max.	max.
HC FeMn 78	78	6.5 - 7.5	0.20	0.3	0.01

4. Sizing

- Examples of standard sizing:
 - 20 – 80 mm, maximum 10% undersize
 - 10 – 50 mm, maximum 10% undersize
 - 5 – 25 mm, maximum 5% undersize
- All sizes: maximum 10% oversize.
Other sizing on request.

5. Packing

HC FeMn is usually delivered as bulk. Packing in big bags and other packaging on request.

6. Physical data

- Density : approx. 7.3 g/cm³
- Bulk density : approx. 4 000 kg/m³
- Melting range : 1 050°C – 1 250°C
- Angle of repose : 40° - 60°, dependent on size of material.