

TECHNICAL DATA

Calcium Bearing 75% ferrosilicon



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For grey and ductile iron inoculation

Chemical Analysis: Silicon 74 - 79%
Calcium 0.8 - 1.2%
Aluminium 0.5 - 1.0%

Sizing Mesh Tyler: 100M x 28M
28M x 6M
6M x 4M

Silicon : 70 - 79% for sizes below 28M

In grey Iron: Calcium-bearing 75% Ferrosilicon acts as good inoculant, serving to reduce chilling on the edges and in thin sectioned castings. The inoculation effect, created mainly by the controlled Calcium content, results in improved graphite shape and increasing physical and mechanical properties, as well better machinability. Typical addition quantities to grey iron are 1 – 3 Kgs./tonne of metal (2-6 pounds/tonne).

In Ductile Iron: Calcium-bearing 75% Ferrosilicon has been the priority inoculant of the ductile iron industry for many years. Contrary to the situation in grey cast iron, in most cases of patented and expensive inoculants do not produce better inoculation effects. Usually, addition rates are much higher in ductile iron than in grey iron changing from 3–10 Kgs/tonne of molten metal. (7-22 pounds/tonne).

Late Inoculation: Size 100M x 28M (0.15 – 0.60 mm) is manufactured to be used, mainly in the channel of the casting or for injection in the mechanical system or for blowing.

Nowadays, concern regarding contamination for undesirable elements is increasing. Our Italmagnésio Calcium -bearing 75% Ferrosilicon is produced in submerged arc furnaces ,where charcoal and iron ore are used respectively, as a reductor agent and source of Fe elements. Therefore, the residuals levels of undesirable elements are very low. For example: the typical Chrome level is 0,05% with a typical Manganese level of 0.025%. Alloys prepared with the utilization of steel scrap could have higher level of those elements.