

TECHNICAL DATA

75% Ferrosilicon



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Chemical Analysis:

Silicon	74 – 79%
Aluminium	1.25%max
Calcium	1.0%max
Phosphorus	0.035% max
Carbon	0.10% max
Sulphur	0.025% max

Description:

Silver grey
Exothermic – 3.3°C (6°C) increase per percent of silicon added

Melting range:

1266 : 1330°C (2310 : 2430°F)

Sizing Mesh Tyler:

100M x 28M
3/8" x 2"
2 1/2" X 1 1/4"
4" X 2"

In Cast iron: 75% Ferrosilicon can be used as Silicon corrective.

Nowadays, concerning regarding contamination for undesirable elements are increasing. Our Italmagnésio 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 Chromium 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.

In Steel: 75% Ferrosilicon is used mainly as deoxidizer and as alloy in steel manufacturing, for steel spring and steel sheets with high magnetic permeability used for transformers.