MM Ceramics & Ferro Alloys
a MTC Group Company

FeMn

Ferro Manganese

Ferromanganese co the reduction process in an electric arc or blast furnaces. It finds extensive application in the steel industry. Ferromanganese alloy is notable for its low melting point and tensile strength. Ferro Manganese is an alloy with high percentage of manganese. It is made by heating a mixture of oxides, MnO_2 and Fe_2O_3 with high carbon content.

The manganese in ferromanganese alloy serves as a steel deoxidizer and desulphurizer. It enhances the tensile strength, toughness, workability, hardness, and resistance to corrosion.

Applications

Some of Ferro Manganese alloy's applications are found in industries like

FeMn

Product Specification

Parameters	option 1	option 2	option 3
Manganese (Mn)	65% min	70% min	75% min
Carbon (C)	8% max	7% max	7% max
Silicon (S)	1.5% max	1.5% max	1.5% max
Phosphorous (P)	0.35% max	0.35% / 0.15% / 0.1% max	0.2% / 0.15% / 0.1% max
Sulphur (S)	0.03% max	0.03% max	0.03% max
Size	10-150mm / 10-60mm	10-50mm / 10-60mm	10-50 mm

Parameters	option 4 MC	option 5 LC	option 6 LC
Manganese (Mn)	70% / 75% / 78%min	70% / 75% / 78% / 88% min	70% / 75% 78% min
Carbon (C)	1% / 1.5% max	0.2% max	0.5% max
Silicon (S)	1% / 1.5% 3% max	6% max	1% max
Phosphorous (P)	0.2% / 0.35% max	0.25 / 0.35% max	0.2% / 0.35% max
Sulphur (S)	0.03% max	0.03% max	0.03% max
Size	10-50mm / 10-150mm	10-50mm / 10-150mm	10-50 /10-150mm