



FeNb



Ferro Niobium

Ferro Niobium is manufactured in an electric furnace by the aluminothermy method. Ferro niobium contains about 60-70% niobium. It is used in the smelting of heat resistant alloys.

It is used in increasing the strength of the alloys, including manufacturing of High-Strength special Steels Low-Alloy (HSLA), mainly used in automobiles, pipe fabrication, structural steels and stainless steels resistant to high temperatures

Applications

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



Product Specifications of Ferro Niobium

Parameters	Option 1	Option 2	Vaccum grade
Niobium (Nb)	60-68%	64-67%	60-65%
Carbon (C)	0.2% Max	0.2% Max	0.05% Max
Phosphorous (P)	0.15% Max	0.2% Max	0.01% Max
Sulphur (S)	0.1% Max	0.1% Max	0.01% Max
Silicon (Si)	3% Max	3% Max	0.4% Max
Aluminium (Al)	2% Max	1% Max	1% Max
Tin (Sn)	0.1% Max	--	0.005% max
Tantalum (Ta)	0.5% Max	0.5% Max	--
Lead (Pb)	0.01% Max	--	0.005% max
Manganese (Mn)	1% Max	--	--
Titanium (Ti)	1% Max	--	0.1% max
Iron (Fe)	--	--	Balance
Arsenic (As)	--	--	0.005% Max
Bismuth (Bi)	--	--	0.005% Max
Nitrogen (N)	--	--	300 ppm
Oxygen (O)	--	--	1000 ppm
Size	10-50mm	10-30mm	5-40mm