COMETAL

Your Door to Raw Materials & Markets

Ferro Titanium

26	55.845	22	47.867
Fe	$^5D_4$ 1,83	Ti	$^3F_2$ 1,54
Iron		Titanium	
7,874	7,9024	4,507	6,8281
1538	2861	1668	3287
(m) 126	BCC	(m) 147	HCP
[Ar] $3d^6$ $4s^2$ +2,3		[Ar] $3d^2$ $4s^2$ +2,3,4	

Description

Ferro Titanium is a Ferro Alloy that can be obtained by melting scrap titanium together with iron or steel in an induction furnace and reducing titanium ores (Rutile, Ilmenite or Leucoxene).

There are four standard types of Ferro Titanium based primarily on their titanium and aluminium content. The major world producers of Ferro Titanium are China, India, Russia, Ukraine, the United Kingdom and the United States.

Element	Grade A	Grade B	Grade C	Grade D
Ti %	65.0 – 75.0	65.0 – 75.0	35.0 – 45.0	15.0 – 25.0
C, % max	0.15	0.20	0.15	5.0
Si, % max.	0.25	0.25	5.0	5.0
Al, % max.	0.50	5.0	8.0	8.0

Properties

PHYSICAL STATE	Solid
COLOUR	Metallic gray
ODOUR	Odourless
MELTING POINT	975ºC-1525ºC
BOILING POINT	>3000ºC
SPECIFIC GRAVITY	5.6-6.8g/cm^3

Ferro Titanium is stable in normal conditions, but it should not be exposed to water, acids or strong oxidizing or reducing agents.

Ferro Titanium is neither considered a hazardous product according to the relevant European Regulations nor a hazardous good for its transportation.

Uses

Titanium is used due to its deoxidizing effects, grain size control effect and also for controlling and stabilizing the carbon and nitrogen content in the manufacturing of steel. Ferro Titanium is used for the addition of titanium to alloyed steel (instead of titanium scrap) due to its lower melting point and higher density.

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