

Ferro Manganese

26	55.845	25	54.938049
Fe	⁵ D ₄ 1,83	Mn	⁶ S _{5/2} 1,55
Iron		Manganese	
7,874	7,9024	7,47	7,4340
1538	2861	1246	2061
(m) 126	BCC	(m) 127	§cubic
[Ar] 3d ⁶ 4s ² +2,3		[Ar] 3d ⁵ 4s ² +2,3,4,6,7	

Description

Ferro Manganese is a Ferro Alloy obtained by the carbothermic reduction of manganese oxide-based ores.

Ferro Manganese is classified according to its carbon content in the following basic categories:

ELEMENT	STANDARD OR HIGH CARBON	MEDIUM CARBON	MEDIUM CARBON NITRIDED	LOW CARBON
Mn %	74 - 82	80 - 85	75 - 80	80 - 90
C % máx.	7.5	1.5	1.5	0.1 - 0.75
Si % máx.	1.2	0.35 - 1.5	1.5	2.0 - 7.0
P % máx.	0.35	0.3	0.3	0.2 - 0.3
S % máx.	0.05	0.02	0.02	0.02
N % mín.	-	-	4	-

Properties

PHYSICAL STATE	Solid
COLOUR	Metallic gray
ODOUR	Odourless
MELTING POINT	1245°C
BOILING POINT	2097°C
SPECIFIC GRAVITY	6.7g/cm ³

It is used in the manufacturing of several types of steel as a desulphurizing agent, removing the nitrogen bubbles that can be formed and reducing the amount of iron oxide produced during steel production.

The product is stable under normal conditions. Its contact with moisture, acids or oxidizing agents causes the formation of metal oxides.

Ferro Manganese is neither classified as a hazardous substance according to the relevant European Regulations nor classified as a hazardous good for its transportation.

Uses

Ferro Manganese, similarly to Silico Manganese, is very largely used as a deoxidizing agent, to counteract the negative effect of sulphur and as a contributor of alloying elements in steel manufacturing and in a lesser extent (around 10%) in foundries.

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