

**CORPORATE PURCHASING SPECIFICATION**

AA 113 04

Rev. No. 02

PREFACE SHEET**FERROSILICON**

**FOR INTERNAL USE ONLY
REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS**

Comparable Standards:

1. INDIAN : IS:1110 – 1990
Ferrosilicon

Suggested / Probable Suppliers and Grades :

1. Mithon Minerals
2. VBC Ferro alloys - Hyderabad
3. Nav Bharat Ferro alloys - Hyderabad
4. Oswal Minerals - Bangalore
5. Duplex Ferro alloys - Kolkata

User Plant References:

1. BHOPAL : --
2. HYDERABAD : --
3. CFFP, HARDWAR : --

Revisions:

Cl: 19.9.4 of MOM of MRC-FN

APPROVED :

**INTERPLANT MATERIAL
RATIONALISATION COMMITTEE-MRC (FN)**

Rev. No. 02	Amd.No.	Reaffirmed	Prepared BHOPAL	Issued Corp. R&D	Dt. of 1st Issue JULY, 1985
Dt:15.06.2005	Dt :	Year :			



FERROSILICON

1.0 GENERAL:

This specification governs the quality requirements of Ferrosilicon for use in iron and steel melting.

2.0 APPLICATION:

Used as deoxidiser in steel making and also for alloying of steel and iron melts.

3.0 COMPLIANCE WITH NATIONAL STANDARD:

The material shall comply, in general, with the requirements of the following national standard and also meet the requirements of this specification.

IS: 1110 – 1990 : Ferrosilicon
Gr: FeSi73 Al05

4.0 SHAPE AND SIZE:

4.1 The material shall be supplied in either of following sizes as per order.

4.1.1 Lumps of size 50 mm to 150 mm, the percentage of fines shall be limited to 10% max.

4.1.2 Lumps of size 25 mm to 100 mm, the percentage of fines shall be limited to 10% max.

4.2 Granules of size 2.5 mm to 5.0 mm with 10% max. above 5 mm and 5% max. below 2.5 mm.

5.0 FREEDOM FROM DEFECTS:

The material shall be free from slag or any foreign matter.

6.0 SAMPLING:

Composite sample shall be prepared from each consignment of 1000 kg or part there off.

7.0 CHEMICAL COMPOSITION:

The material when tested in accordance with IS: 1559 shall conform to the following:

Constituent	Percent
Silicon	70 – 75
Sulphur	0.05, max
Carbon	0.15, max
Phosphorous	0.05, max
Aluminium	1.00, max

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**8.0 ACCEPTANCE TEST:**

Each consignment shall be accepted on the basis of tests carried out as per clause 4.0, 5.0 and 7.0. However, Sulphur, Phosphorous and aluminium determination shall be undertaken only for stainless steel casting or as and when required.

9.0 INSPECTION, DEVIATION AND REPLACEMENT:

BHEL reserves the right to inspect the material at site before despatch. The supplier shall intimate in advance enclosing a copy of test certificate of the material offered for inspection. Final tests shall be carried out at BHEL and material will be accepted or rejected based on result. If the material received is not found suitable to our requirements, it shall be replaced free of charge by the supplier. For any deviation demanded by the supplier from the specification, prior approval of BHEL must be obtained in writing.

10.0 TEST CERTIFICATE:

Unless and otherwise stated, three copies of certificates shall be supplied along with each consignment giving the following information.

In addition the supplier shall ensure to send one copy of test certificate along with the despatch documents to facilitate quick clearance of the material.

AA 113 04 (Rev. No. 02) : Ferrosilicon

BHEL order no.

Supplier's trade mark if any

Serial and batch no.

Grade, size of Ferro-silicon

Test results of clauses 4.0, 5.0 and 7.0

11.0 PACKING AND MARKING:

The material shall be supplied in gunny bags of 100 kg.

Each bag shall be marked clearly with the following information.

AA 113 04: Ferrosilicon

BHEL Order No.

Supplier's name and trade mark if any

Grade of Ferro-Silicon

Net weight and gross weight.

12.0 REFERRED STANDARDS (Latest Publications Including Amendments):

1. IS: 1110

2. IS: 1559