



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:

This specification in general is based on Indian standard IS: 1110 – 1990 Ferrosilicon Gr: FeSi73 Al15

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 40 mm to 150 mm. However oversized and undersized material should not exceed 10% each by weight.

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 CHEMICAL COMPOSITION:

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

Constituent	Percent
Silicon	70 – 75%
Sulphur	0.05, max
Carbon	0.15, max
Phosphorous	0.05, max
Aluminium	1.50, max

6.0 FREEDOM FROM DEFECTS:

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

7.0 SAMPLING:

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

Revisions :
As per 23rd of MOM of MRC-FN

APPROVED :
INTERPLANT MATERIAL
RATIONALISATION COMMITTEE-MRC (FN)

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AA 113 04	CORPORATE PURCHASING SPECIFICATION	
Rev. No. 03		
PAGE 2 OF 2		

8.0 ACCEPTANCE TEST:

Each consignment shall be accepted on the basis of tests carried out as per clause 4.0, 5.0 and 6.0.

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 meeting the requirement of this specification, 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:

One original and three copies of test certificate from the Manufacturer containing the following information along with test result of clause 4 and chemical composition as per clause 5 should be provided.

Manufacturer's Name

Name of the material.

Quantity.

Note:

- a) A manufacturer supplying directly to BHEL should include BHEL's P.O. number and challan number also in the T.C.
- b) Any other supplier should provide a covering letter along with original manufacturers T.C. as above mentioning BHEL's P.O. number and challan number. Supplier shall give packing details of the material in the guarantee certificate.

11.0 PACKING AND MARKING:

The material shall be packed such as to prevent loss / deterioration in quality during handling, transport and storage. It should be in the manufacturer's packing. Each packing should be marked with the following details.

Ferrosilicon

Supplier's name and trade mark if any.

Net weight and gross weight.

12.0 REFERRED STANDARDS (Latest Publications Including Amendments):

- 1. IS: 1110
- 2. IS: 1559