



PLANT PURCHASE SPECIFICATION

(CFFP - HARDWAR)

FF 05001 Rev 07

Page 1 of 3

FERRO SILICON (LUMPS)

1. SCOPE

This specification governs the quality of Ferro Silicon (Lumps) with the following requirements.

2. APPLICATION

The material shall be used for melting and refining of steel.

3. CONDITION OF DELIVERY

The size should be in the range of 40-150 mm. However oversized or undersized material should not exceed 10% each by weight.

4. COMPLIANCE WITH NATIONAL STANDARDS

The specification has been drawn from Indian standards specification IS 1110-1990;
Grade: FeSi73A115.

5. FREEDOM FROM CONTAMINATION

The material shall be free from extraneous contamination such as slag.

6. CHEMICAL COMPOSITION

The material should conform to the following chemical composition when it is analyzed in accordance with IS: 1559 or equivalent international standard/instrumental analysis traceable to International standard. Composite sample shall be prepared by drawing samples from each consignment of 1000Kg or part thereof.

ELEMENT	% MIN	%MAX
Carbon	-	0.15
Silicon	70	75
Sulphur	-	0.05
Phosphorus	-	0.05
Aluminium	-	1.50

Trace elements are for information purpose only.

The test results are to be rounded off as per IS 2-1960 (reaffirmed 2000).

RMI	ARUN AGARWAL		SMS TECHNOLOGY	M K SAHU	
MPIC	ROHIT VARSHNEY		CHECKED BY	B K BEDI	
CHAIRMAN PPSC	V K AGARWAL		APPROVED BY	P K ROY	
			APPROVED : PLANT STANDARDS COMMITTEE		
			PREPARED : SMS TECH	ISSUED : Steel Melting Shop	DATE:



PLANT PURCHASE SPECIFICATION

(CFFP - HARDWAR)

FF 05001 Rev 07

Page 2 of 3

7. INSPECTION AT SUPPLIER'S WORKS:

- CFFP reserves the right to witness the testing of the material at supplier works and therefore the supplier shall notify the readiness of the material in advance.
- If any specific inspection requirements are written in purchase order, the same shall be applicable
- CFFP may, test the material after receipt at CFFP on random basis and acceptance of the material will be based on the CFFP'S test results.
- For result of analysis and properties of material, the decision of CFFP shall be final and binding on the supplier.

8. TEST CERTIFICATES :

One Original and three copies of Test Certificate from the **Manufacturer in English** containing the following information **along with test result as per clause 3 and the chemical composition as per clause 6** should be provided.

Manufacturer's Name

Name of the material

Lot Quantity.

Note:

- a) A manufacturer supplying directly to BHEL should include BHEL's P.O. No. and Challan No. also in the TC.
- b) Any other supplier should provide a covering letter along with original Manufacturer's TC as above mentioning BHEL's P.O. No. and Challan No.
Supplier shall give the packing detail of material in the guarantee certificate.

9. 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 package should be marked with the following details.

Name of the material

Manufacturer's Name / Trade mark

Net weight.

10. REFFERED STANDARDS

IS: 1110, IS: 1559

WORKED BY

M K SAHU

B K BEDI



PLANT PURCHASE SPECIFICATION

(CFFP - HARDWAR)

FF 05001 Rev07

Page 3 of 3

REVISION RECORD SHEET

SN	Revision No.	Revision date	Nature of Changes
01.	04	17.07.2006	- Packing clause modified.
02.	05	07.09.2009	- Clauses 8 and 9 revised incorporating requirement of manufacturer's packing and Test certificate.
03	06	24.12.2010	- Clause 3: Size range redefined and size for multi hopper system has been removed. - Clause 4&6: The material is based on grade FeSi73A115. Earlier it was based upon FeSi76. In this grade the range of Si content is 70-75%. Sampling of material for chemical analysis will be done as per this specification. - Clause 8 & 9: Batch no & lot no removed.
04	07	14.08.2017	- Clause 6: Analysis with international standard/instrumental analysis traceable to international standard added.

WORKED BY

M K SAHU

CHECKED BY

B.K. BEDI

COPYRIGHT AND CONFIDENTIAL

The information on this document is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.