



PLANT PURCHASE SPECIFICATION (CFFP - HARDWAR)

SILICO MANGANESE : Grade Si 16 Mn 63

1.0 GENERAL:

This specification governs the quality requirements of SILICO MANGANESE.

2.0 APPLICATION:

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

3.0 CONDITION OF DELIVERY

The size should be in the range of 10-50 mm. However oversized or undersized material should not exceed 10% each by weight.

4.0 COMPLIANCE WITH NATIONAL STANDARDS:

The specification in generally is based on Indian standards specification IS 1470-1990 (Reaffirmed 1999) Grade: Si16Mn63.

5.0 FREEDOM FROM CONTAMINATION

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

6.0 CHEMICAL COMPOSITION:

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

Composition	Percentage	
	Min	Max
Manganese	60	65
Silicon	14	20
Carbon	-	2.50
Sulphur	-	0.05
Phosphorus	-	0.35

Trace elements are for information purpose only.

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

PURCHASE	RANJAN KUMAR	<i>Ranga</i>	SMS TECHNOLOGY	RANJAN	<i>Ranga</i>
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			APPROVED : PLANT STANDARDS COMMITTEE		
			PREPARED : SMS TECH	ISSUED : Steel Melting Shop	DATE : 24.12.10

*4/12/10
27.12.10*

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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.
- CFFP may, at its discretion, test the material after receipt and acceptance of the material will be based on the CFFP'S test results.
- Supplier shall ensure that the material is free from extraneous material. The material shall be rejected if it is not free from extraneous material.
- 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** containing the following information **along with test result of clause 3 and the chemical composition as per clause 6** should be provided.

Manufacturer's Name
Name of the material
Quantity.

Note:

- A manufacturer supplying directly to BHEL should include BHEL's P.O. No. and Challan No. also in the TC.
- 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 in the guarantee certificate.

9. PACKING AND MARKING

The material shall be packed in 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. REFERRED STANDARDS

IS: 1470 , IS: 1559

WORKED BY	RANJAN	<i>Ranjana</i>	24/12/10

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REVISION RECORD SHEET

SN	Revision No.	Revision date	Nature of Changes
1	01	31.05.2010	- Clause 6: Limit for P content increased from 0.03% to 0.035%.
2	02	24.12.2010	<ul style="list-style-type: none">- Clause 3: Material size 50-150 mm removed.- Clause 6: Sampling for chemical analysis will be done as per this specification.- Clause 8 & 9: Batch no and Lot no removed.

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WORKED BY

RANJAN

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27.12.10