

PLANT PURCHASE SPECIFICATION

(CFFP - HARDWAR)

FF 05058 Rev03

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FERRO TITANIUM (Fe-Ti)

1. SCOPE

This specification governs the quality of Ferro Titanium with the following requirements.

2. APPLICATION

The material shall be used as alloying addition for manufacturing of steel.

3. CONDITION OF DELIVERY

The size should be in the range of 10-50 mm. However oversized material should not exceed 10% by weight and undersize material should not exceed 5% by weight.

4. COMPLIANCE WITH NATIONAL STANDARDS

The specification in general is based on Indian standards specification IS 1468: 2000 Grade: FeTi35Al 2.

5. FREEDOM FROM CONTAMINATION

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

6. CHEMICAL COMPOSTION

The material shall conform to the following chemical composition when it is analyzed in accordance with IS 13840. The sampling shall be done as per IS: 1472.

ELEMENT	% MIN	%MAX		
Titanium	30	40		
Carbon		0.15		
Silicon		3.0		
Copper -		0.2		
Sulphur		0.10		
Phosphorus		0.10		
Aluminium		2.00		

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			APPROVED: PLANT STANDARDS COMMITTEE			
			PREPARED: SMS TECH	ISSUED: Steel Melting Shop	DATE : 30.07.10	

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FF 05058 Rev03 PLANT PURCHASE SPECIFICATION बीएम ईएम (CFFP - HARDWAR) Page 7. INSPECTION 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. For any deviation from this specification prior approval shall be taken by the supplier. For result of analysis and properties of material the decision of CFFP shall be final and binding on the supplier. COPYRIGHT AND CONFIDENTIAL information on this documents is the property of Bharat Heavy Electrical ited. It must not be used directly or indirectly in any way detrimental to the interest of the company 8. TEST CERTIFICATES One Original and three copies of Test Certificate from the Manufacturer containing the following information along with test result of clause 3,5 and the chemical composition as per clause 6 should be provided. Manufacturer's Name Name of the material Batch/Lot No. Quantity. Note: a) A manufacturer supplying directly to BHEL should include BHEL's P.O. No. and Challan No. also in the TC. The 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. 9. PACKING AND MARKING The material shall be packed in pack in Tamper proof metallic drum 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 Batch/Lot No. Net weight. 10. REFFERED STANDARDS IS: 1468 -1993, IS: 13840, IS: 1472.

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M.K.SAHU

RANJAN

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REVISION RECORD SHEET

SN	Revision No.	Revision date	Nature of Changes
01.	01	07.07.2004	- Clause no 4,5,7,9,10 And Clause 11deleted.
02.	02	07.09.2009	 -Clauses 8 and 9 revised incorporating requirement of manufacturer's packing and Test certificate. - Clause no 3 modified for only one
operty of Bharat Heavy Electrical Limited It must not be used directly or indirectly in any way detrimental to the interest the company Output Output Description and way detrimental to the interest the company of	03	30.07.2010	size material. - Clause 3: Size range redefined. - Clause 6: Testing and sampling shall be done as per IS 13840 & 1472. Limit for sulphur content has been increased from 0.05% to 0.10%. -Clause 8: Clause 5 included in the T.C. - Clause 9: Tamper proof metallic drum incorporated as per SP-0612 dated 11.03.2010.

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