



PLANT PURCHASE SPECIFICATION

(CFFP - HARDWAR)

FF 05057 Rev 02

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FERRO VANADIUM (Low Sulphur & Phosphorus)

1. SCOPE

This specification governs the quality of Ferro Vanadium (LSP) with the following requirements.

2. APPLICATION

The material shall be used as alloying addition for manufacturing of alloy 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 1466-1985.

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 1559. The sampling shall be done as per IS: 1472.

ELEMENT	% MIN	%MAX
Vanadium	50	55
Carbon	-	0.10
Silicon	-	1.5
Sulphur	-	0.02
Phosphorus	-	0.02
Aluminium	-	1.50

RMI	S.N..GHOSH		WORKED BY	M.K.SAHU	
MPIC	N.K.VERMA		CHECKED BY	RANJAN	
CHAIRMAN CPSC	R.PARTHASARATHY		SECRETARY PPSC	Dr.M.S.RAWAT	
			APPROVED : PLANT STANDARDS COMMITTEE		
			PREPARED : SMS TECH	ISSUED : Steel Melting Shop	DATE : 30.07.10



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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.

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 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.

9. PACKING AND MARKING

The material shall be packed 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: 1466 -1985, IS : 1559 , IS: 1472 and BHEL Corporate specification: AA 11310

WORKED
BY

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REVISION RECORD SHEET

SN	Revision No.	Revision date	Nature of Changes
01.	01	07.09.2009	-Clauses 8 and 9 revised incorporating requirement of manufacturer's packing and Test certificate.
02.	02	30.07.2010	<ul style="list-style-type: none">- Clause 3: Size Range redefined.- Clause 6: Sampling and testing as per IS 1472 & IS 1559.- Clause 8: Clause 5 included in T.C.- Clause 9: Size of the pack and tamper proof metallic drum incorporated as per SP-0612 dated 11.03.2010.

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