## QUALITY MONITORING INSTRUCTION FOR INSPECTION

Issue No : 01 Rev No: Date of Issue 09/10/2023

C 5115 (CONNECTING LINK RIGID)		OFT/MI/30mm/ 5115	
	Amendment		Date
Rev.No	America		

MATERIAL SPECIFICATION : 30XPA , OCT-3-98-80

ALT.MATERIAL

: IS: 4367-91 DISIGNATION 25 Cr 13 Mo 6 'M' (or) IS: 5517-1993, DESIGNATION 25 Cr 13 Mo6 'M'.

(LRS-62mm)

CONDITION OF SUPPLY

: FULL FINISHED THROUGH FORGING ROUTE

**END USE** 

: 30mm CANNON.

## INSPECTION CHECK TO BE CARRIED OUT

		INSPECTION CHECK TO BE CARRIED OUT	able 'A'
SL	CHARACTERISTICS	SPECIFICATION / REQUIREMENT	SAMPLE SIZE
1. 2.	Visual  Dimension	The component shall be free from cracks flacks, segregation porosities, slag inclusions, rolled in scale etc.,  100% Dimension to check as per drawing.	100%
3.	Chemical Composition (%)	STEEL 30XPA OCT 3-98-80:-   (As per Standard GOST 5160-70)	One Sample Per Heat

		STEEL 30XPA OCT-3-98-80	
	**************************************	Tensile Strength = 160 Kgf/mm <sup>2</sup> (Min)	
		Yield Strength = 130 Kgf/mm <sup>2</sup> (Min)	
		Elongation = 9% (Min)	
	~~~	Reduction of area = 40% (Min)	
		Impact = 5 Kgfm/cm <sup>2</sup> (Min)	
		IS: 4367-91 DISIGNATION 25 Cr 13 Mo 6 'M' (LRS 63mm)	acceptance of the control of the con
	Mechanical	Tensile Strength = 1550 MPa (Min)	One Sample
4.	Properties	Yield Strength = 1300 MPa (Min)	Per Heat
	•	Elongation = 8% (Min)	
		Impact (Izod) = 15 Joules (Min)	***************************************
			***************************************
		IS: 5517-1993, DESIGNATION 25 Cr 13 Mo6 'M' (LRS 63mm)	
		Tensile Strength = 1500 MPa (Min)	
- Control of the Cont		Yield Strength = 1300 MPa (Min)	
		Elongation = 8% (Min)	
		Impact (Izod) = 14 Joules (Min)	
5.	Hardness	43.5 – 51.5 HRc. ( As per drawing)	100%
		(i) Macro Etch Test:	
		Acceptance Standard C-2, R-2,S-2 as per ASTM E-381 -82	
		standard.	
-		(ii) NMIR as per IS: 4163-1982.	
6.	Other Tests	with Acceptance standard	
		A B C D	
		Thin Thick Thin Thick Thin Thick Thin Thick	
		3 1 3 1 3 1 3	
		(Max) (Max) (Max) (Max) (Max) (Max) (Max)	
		Accelerated Electroless phosphating with chromate treatment/	
		Impregnation with adhesive Бф-4, ГОСТ 12172-74, with Nigrosine,	
7.	Protective Finish	grade A, FOCT 9307-78, one coat. Or Phosphating (accelerated)	100%
		Gde JSS:0465-01-94 with coating of Dunlop adhesive S758 one	
4		layer and Nigrosine to JSS:1036	
0	Dacking	The Packing of the Material shall be done in such a manner to avoid	
8.	Packing	corrosion and damage in handling and transit.	Each
	Marking	Each Packing shall be legibly marked with manufacturer's identity	Consignment
9.	Marking	, Qty, Heat No, OFT Supply order No etc.,	

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## Note:

- The Raw material / component to be tested by the firm on selection of the sample by the firm itself for chemical composition and mechanical properties in NABL accredited approved Lab as per Table 'A'.
- 2. The Firm has to check for the dimensions, visual defects, packing and marking as per Table 'A'. After completion of tests as per Note-1 as above, the Firm has to submit the following documents to OFT.
  - I. The Raw material certificate from the original manufacturer, Heat number, and quantity purchased and number of bars is to be mentioned in the inspection letter to OFT.
  - II. The Chemical and Mechanical test certificates from NABL accredited approved lab as per
  - III. Dimensional reports including visual as per Table 'A'.
  - IV. Guarantee / Warrantee certificate of supplier against the supply.
- 3. All the above Documents mentioned at Note No.2 above are to be forwarded to ED/OFT along with supply.
- 4. OFT shall verify all the documents as above and accord clearance to the firm for dispatch of the material to OFT if all documents are in order.
- 5. OFT/Trichy shall verify all the parameters as per Table 'A' and after satisfactory results, the material will be accepted /cleared accordingly.
- 6. Material has to be replaced 100% by the firm in case of non conformity to specification as per Table-A, during inspection at OFT, Trichy.

## **VERIFICATION OF INSPECTION DOCUMENTS**

SL NO	INSPECTION DOCUMENTS	
1	The Raw material original Manufacturer's certificate, Details of Heat Number, Quantity	
	purchased and number of Bars etc.,	
2	The Chemical and Mechanical test certificates from NABL accredited approved Lab.	
3	Dimension report including visual.	
4	Packing slip details.	

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