QUALITY MONITORING INSTRUCTION FOR INSPECTION

Issue No : 01
Rev No:
Date of Issue

C 5056 (CONNECTING LINK, RIGID)

OFT/MI/30mm/ C 5056

Rev.No Amendment Date

MATERIAL SPECIFICATION :

30XH2MØA OCT 3-98-80.

INDIGENOUS MATERIAL

BS: 970 PT.1 - 1983 GR.826 M31 'Z' CONDITION (OR)

IS: 5517-1993, DESIGN 31 Ni10 Cr3 Mo6 (LRS 63mm)

CONDITION OF SUPPLY

: FULL FINISHED THROUGH FORGING ROUTE.

END USE

: 30mm CANNON.

INSPECTION CHECK TO BE CARRIED OUT

Table 'A'

SL NO	CHARACTERISTICS	SPECIFI	CATION / REQUIREMENT	SAMPLE SIZE
1.	Visual	The Component shall burrs and any other ha	be free from defects such as rust, scale armful defects.	100%
2.	Dimension	100% Dimension to ch		
3.	Chemical Composition (%)	30XH2MØA OCT 3-98 (Refer GOST 4543-71) C = 0.27-0.34 Si = 0.17-0.37 Mn = 0.30-0.60 Cr = 0.60-0.90 Ni = 2.00-2.40	V = 0.10-0.18 Mo = 0.20-0.30 Cu = 0.30 (Max) S = 0.025 (Max) P = 0.025 (Max) 826 M31 'Z' CONDITION. Mo = 0.45-0.65 S = 0.025 (Max) P = 0.025 (Max) Mn = 0.40-0.70 Ni = 2.25-2.75 Mo = 0.40-0.70 P = 0.035(Max) V = 0.05(Max) Tin = 0.05(Max)	One Sample Per Heat

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PREPARED

		30XH2N	1ØA OS	T 3-98-	80 (Refe	r GOST	4543-73	L)			
	Mechanical Properties	Tensile S			00 Kgf/m				000000000000000000000000000000000000000		
			Yield Point 80 Kgf/mm² (Min)								
		Elongati			.0% (Mir						
		Reduction		ea 4	10% (Mir	1)					
		Impact 5			Kgf.m/	cm² (Mi	n) /				
		(Cross section of blanks to be heat treated -Ø25mm or 25mm SQ)							One Sample		
4.		BS:970 I	BS:970 Pt.1, 1983 GR.826 M31 ('Z' Condition)							Per Heat	
			Tensile Strength 1550 N/mm ² (Min)								
		Yield St	No.			N/mm^2					
			Elongation 5 % (Min.)								
		Impact			8 ft.1t	(Min).					
		10. 551	10, 5517 1002 Design 21 Ni10 Cu2 Mat. (I DC 62mm)								
			IS: 5517-1993, Design 31 Ni10 Cr3 Mo6. (LRS 63mm) Tensile Strength 1550 Mpa (Min) As per drawing								
		0.2% Proof Stress 1300 MPa (Min) As per drawing									
		% Elongation 8% (Min)									
		Impact	W			ules (M	in)	-			
5.	Hardness	43.5-51.5 HRC (as per drawing).					100 % /				
	Other Tests	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		With acceptance standard									
		1	4		В		C	[D		
		Thin	Thick	Thin	Thick	Thin	Thick	Thin	Thick		
		3	1	3	1	3	1	3	1		
		(Max)	(Max)	***************************************	(Max)	(Max)	(Max)	(Max)	(Max)	•	
7	Protective Finish	As per drawing 100%					100%				
8.	Packing								anner to		
		avoid co								Each	
9.	Marking				e legibly , OFT Su				icturer's	consignment	
		identity	, Qty, r	reativo,	, ori su	hhis orc	ier ivo e	ш.,		<u> </u>	

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Note:

- 1. 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
- 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
 - 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.
 - The Chemical and Mechanical test certificates from NABL accredited approved lab as per
 - 111. Dimensional reports including visual as per Table 'A'.
 - 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
- 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

	The Raw material 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 Machanisal
3	The Chemical and Mechanical test certificates from NABL accredited approved Lab. Dimension report including visual.
4	Packing slip details.

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