

QUALITY MONITORING INSTRUCTION FOR INSPECTION		Issue No : 01
		Rev No :
		Date of Issue 03 / 04 / 2021
44P 06008 (TRIGGER) ✓		OFT/MI/AMR/44P 06008 ✓
Rev.No	Amendment	Date


MATERIAL SPECIFICATION : EN19.
 ALTERNATE MATERIAL : BS 970 PT.1 1983 GR.709 M40.
 CONDITION OF SUPPLY : FULL FINISHED WITH FIRM'S MATERIAL.
 END USE : 14.5 /20mm AMR.

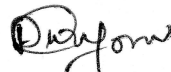
INSPECTION CHECK TO BE CARRIED OUT

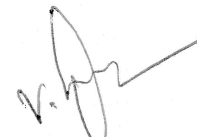
Table 'A'

SL NO	CHARACTERISTICS	SPECIFICATION / REQUIREMENT	SAMPLE SIZE
1.	Visual	The Component shall be free from defects such as rust, scale, burrs and any other harmful defects.	100%
2.	Dimension	100% Dimension to check as per drawing.	
3.	Chemical Composition (%)	<p>EN-19</p> <p>C = 0.35-0.45 Mo = 0.20-0.40 ✓ Si = 0.10-0.35 V = 0.05 (Max) ✓ Mn = 0.50-0.80 S = 0.050 (Max) ✓ Cr = 0.90-1.50 P = 0.050 (Max) ✓ Ni = 0.40 (Max)</p> <p>BS:970 Pt.1, 1983 GR.709 M40</p> <p>C = 0.36-0.44 Mo = 0.25-0.35 ✓ Si = 0.10-0.35 S = 0.040 (Max) ✓ Mn = 0.70-1.00 P = 0.035 (Max) ✓ Cr = 0.90-1.20 Ni = 0.40 (Max) ✓</p> <p>(Permissible variations in value as per specification standard)</p>	One Sample Per Heat


4.	Mechanical Properties	EN-19 ('Y' Condition)	One Sample Per Heat
		Tensile Strength 80 Tons/Sq.In (Min) Yield Stress 68 Tons/Sq.In (Min) Elongation 10% (Min.) Impact (Izod) 10 ft.lb (Min).	
5.	Hardness	BS:970 Pt.1, 1983 GR.709 M40 ('W' Condition)	Each Consignment
6.	Protective Finish	Tensile Strength 1075-1225 N/mm ² Yield Strength 940 N/mm ² (Min) Elongation 12% (Min.) Impact (Izod) 30 ft.lb (Min).	
7.	Packing	34-41 RC (as per drawing).	
8.	Marking	Phosphate to specification JSS: 0465-01-1988, Class-I (Accelerated) , Oil Finish. The Packing of the Material shall be done in such a manner to avoid corrosion and damage in handling and transit. Each Packing shall be legibly marked with manufacturer's identity , Qty, Heat No, OFT Supply order No etc.,	


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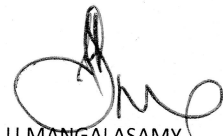

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Note:

1. The Raw material/component/forging/casting 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 Table 'A'.
 - III. Raw material sample minimum of 300mm length should be supplied for cross verification along with the first supply of stores.
 - IV. Dimensional reports including visual as per Table 'A'.
 - V. Guarantee / Warrantee certificate of supplier against the supply.
3. All the above Documents mentioned at Note No.2 above are to be forwarded to GM/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

SI_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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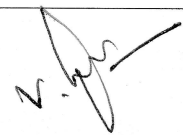
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