# **HEAT - TECH**



# **MULTITHERM**

### **For Precision Heat treaters**

## **Specialist in Small Components**

Carburising , Hardening Tempering, Stress Reliving, Solution Annealing , Normalising S No.30/5B, Near Dran Engineers , Narhe Road , Dhayari , Pune 411041 Ph No.7774050002/03

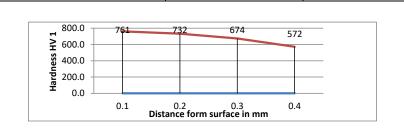
**Metallurgical Inspection Report** 

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Heat Treatment done at	MULTITHERM	Report No.	MT/24-25/NOV/CHT/3792				
Customer Name & Location:	FRACTMET ENGINEERING LLP	Inspection Date:	18-11-2024				
Part Name	THRUST WASHER	Material:	MS				
Part No.	6683300690	Our Inward No:					
Challan No.	1337	HT batch qty:	535 KGS				
Type of HT (CHT/CN/IHT/HT):	Case H	Case Hardening & Tempering (CHT)					

Std. block value: 714 ± 11 Hv1

1. Case depth measurement:

Hv tester calibration-Test Load: 1 kg CD cut off: 550 HV1 Distance (mm) HV1 0.1 761 0.2 732 0.3 674 0.4 572 0.5 433 0.41 MM @ 550 HV1 Observations:



Core microstructure -200 X

Actual value: 706 Hv1

Error: -(08 Hv1)

### 2.Microstructure:

3. Surface Hardness Analysis:										
HV tester calibration	on-									
Job Nos.	1	2	3	4	5	6	7	8	9	10
Hardness	90	91	90	91	91	90	91	91	90	91

### 4. Results:

Parameter	Specification	Observation	Remarks			
Case depth	0.30-0.50 MM	0.41 MM	OK			
Case structure	Fine tempered martensite	Fine tempered martensite	ОК			
Surface Hardness	600 HV10 MIN (88HR15N MIN.)	90-91 HR15N	OK			

5. Final Remarks: ✓ Lot is accepted

Inspected by: KASHID.K

Koyard

Case microstructure -200 X

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