

JYOTI HEAT TREATMENT PVT LTD.

Plot No.: J-199 , M.I.D.C, Bhosari , Pune-26,
Phone: 9823143199/7798078786 | Email: sales@jyotiht.com

TEST REPORT

General Information

Certificate No: JHTPL/1.570/2024	Date: 2024-05-23
Customer: Gurunanak Transmission Pvt. Ltd	Part Name: First Speed Driving Gear
Material: 20MnCr5	Prepared By: Mahesh Pawar
Remarks: Accepted. First Speed Driving Gear 6630358 A3 is cut for micro.	

Parts

Part No	Quantity
6630358 A3	209

Parameters

Parameter	Specified	Actual
Heat Treatment	CHT	CHT
Surface Hardness	59 – 63 HRC	61-62 HRC
Core hardness @ RCD	32 – 44 HRC	40 HRC
Case depth @ PCD	0.60-0.90 mm (cut off 515 HV1)	0.90 mm
Case depth @ Ground	>0.50mm @515HV	NA
Microstructure	Case: Tempered Martensite, RA10-15% max, GBO-10 micron.	Case: Fine Tempered Martensite. RA: 08 %, GBO-08-10 micron.e: Low carbon tempered Martensite.
Grain Size	5-8	7
Carbon Surface Content	0.8 – 1.1%	NA

Surface Hardness Samples

Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
61 HRC	62 HRC	61 HRC	61.5 HRC	62 HRC