Resitech Solutions

Page 1 of 1



Retained Austenite Inspection Report							
Part Name	NHB bearing	Report No./Report Date		0004/RA/22 Nov 2023			
Part No.	12.7 mm dia.	PO. No./ PO. Date		4600010963/17 Nov 2023			
Customer Name	NHB Ball & Roller Ltd.	Sample Identification (customer reference)		AGO12816A			
Sample Receiving date	20th Nov 2023	Sample inspection Date		21st Nov 2023			
	N	Machine Details					
Machine Name		: X Ray Diffractometer					
Machine Make		: GNR Analytical Instruments- ITALY					
Machine model		: Spider X - Edge					
Software		: GNR SW for acquisition and analytical tasks					
Test Method		: As per ref std ASTM 975					
	Machine	e Setting Paramet	ters				
Anode Tube	: Cr K- Alpha	K beta filter	V	V			
Wavelength	: 2.291	Exposure time	(300 sec / A	(300 sec / Accquisition) X 4			
Bragg Angle	α - Fe 156.4degree (211), 106 (200) γ-Aus 130 degree(220), 106 (220)	Calculation		Peak fit, Gauss Algorithm, Effect of possible carbides was not taken in to account			
Collimator	: 2 mm						

Test Location

Ball surface 2 points at 90 degree rotation

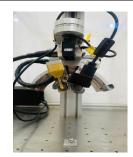


Figure: Mesurement done on the targeted mark

Test Results							
Sr. No.	Location/ Sample	Specification in % (as per customer -if any)	Retained Austenite in %	Result			
1	Sample 1/Location 1		10.33	Ok			
	sample 1/Location 2		10.83	Ok			
				•			

--End of Report--

Checked By C.K.Prabhakaran

Approved By Samarth Jadhav

Format No.- RES/RA/01 Date - 02/09/2023