



LAKSHMI VACUUM HEAT TREATERS PVT. LTD.

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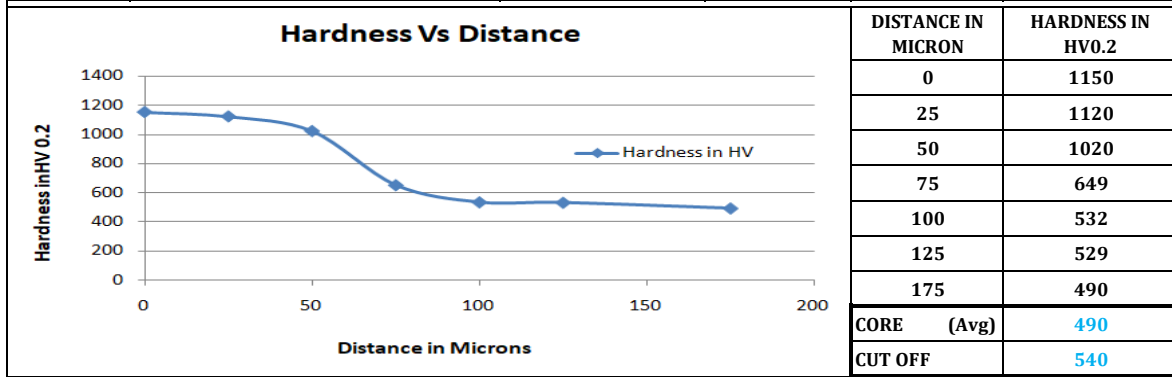


TEST CERTIFICATE

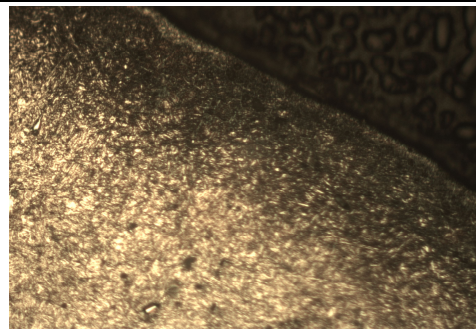
Test Certificate No:	01453/2022-23	Tc Date:	11-Jan-23
Customer Name:	M/s JINDAL ALUMINIUM LIMITED SP-2/333, RIICO INDUSTRIAL AREA, BHIWADI, DISTRICT ALWAR-301019 (RAJ.)	Cycle No:	A.23.06
Delivery Challan No:	BWJW00226202212	Challan Date:	30-Dec-22
		Job Card No.:	01453

PART DETAILS

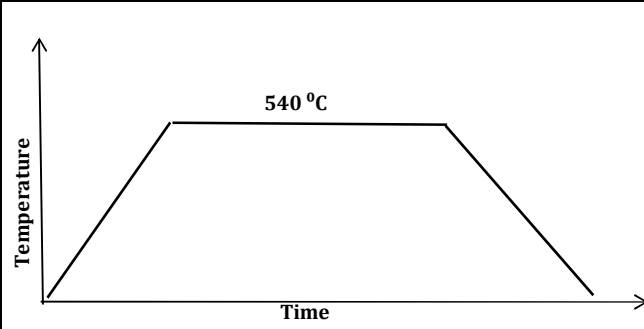
Sr. No.	Part Description	Part No.	Qty(No's)	Steel Grade	Process Type
1	MANDREL+DIE PLATE	~	14 SET	H-13	NITRIDING



Case Microstructure (200X)



CYCLE DETAILS



Sr. No.	REQUIREMENTS	ACTUAL
1	SURFACE HARDNESS	1134 ~ 1161 HV0.2
2	NITRIDING CASE DEPTH	93 ~ 98 Microns

PARTS INSPECTION:

VISUAL	BEFORE	OK	PRE CLEANING	DONE
	AFTER	OK		

REMARKS :

* For better results the jobs received for Nitriding should be Polished & free from casting left over, Bend, Paint, Oil, Grease, rust & dent.

* Test piece is HDS grade and is not from the physical die part. Hardness and case depth checked on a sample piece only.

* Stress relieving carried out before Nitriding process (Temperature @540°C).

RESULT: * Results found satisfactory.

Santosh

CHECKED BY:



Amit

APPROVED BY: