





MILL TEST CERTIFICATE

CERTIFICATE ACCORDING TO EN 10204 : 3.1

PURCHASER NAME :		348254HOU		Date :	29-03-2023	TEST CERTIFICATE No.:	0701/2023						
PURCHASER ORDER No. :		LBST/WO/EXP/22-23/144		Date :	06-04-2023	TEST CERTIFICATE Date :	05.07.2023						
WORK ORDER No. :		RASHTRIYA ISPAT NIGAM LIMITED - INDIA - Melt & Pour		INVOICE NO:		LBSTEXP2324033							
NAME OF STEEL SUPPLIER :		BOF-LF/IRUT-CCM-ROUND METHOD, Fully Killed		INVOICE Date :		05.07.2023							
STEEL MAKING METHOD :		CDS / CS / PIPES		CUSTOMER UID NO		PO. SL. NO. 4							
PROCESS OF PIPE MANUFACTURE :		PM-HI-STP-CD-HT-Finishing-NDT-P&F-Dispatch.		ASTM A53 GR.B(Ed.2012)/ASME SA53 GR.B(Ed.2019)//ASTM A106 GR.B(Ed.2015)/ASME SA106 GR.B(Ed.2019)/NACE MR0103(EDT- 2015) / NACE MR0175(EDT- 2015) / ISO15156									
MANUFACTURE PROCESS ROUTE :													
SPECIFICATION & GRADE :													
Sr. No.	LBST HEAT NO	SUPPLIER HEAT NO	SIZE				Quantity			General			
			OD (INCH)	ID (INCH)	WT (INCH)	Length (FEET)	Nos.	FEET.	MT.	End Condition	Coating		
1	B231549	B231549	1.05" X 0.154" X 19 Feet Long.				690	13109.55	-	Square with Chamfer	Black Paint		
CHEMICAL COMPOSITION (%)													
Sr. No.	HEAT NO	REQUIRED	%C	%Mn	%S	%P	%Cr	%Ni	%Cu	%Mo	%V	%C.E	
		Min.	-	0.40	0.10	-	-	-	-	-	-	-	-
		Max.	0.30	1.20	-	0.025	0.025	0.30	0.40	0.40	0.12	0.08	-
1	B231549	L /A	0.18	0.76	0.12	0.003	0.018	0.036	0.012	0.005	0.001	0.001	0.315
	B231549	P1 /A	0.18	0.75	0.13	0.003	0.018	0.034	0.012	0.004	0.001	0.001	0.313
		P2 /A	0.18	0.76	0.12	0.004	0.017	0.035	0.011	0.004	0.001	0.001	0.315
MECHANICAL PROPERTIES													
Sr. No.	HEAT NO	REQUIRED	YIELD STRENGTH (PSI)	TENSILE STRENGTH (PSI)	ELONGATION (%)	HARDNESS (HRB)		IMPACT TEST	BEND TEST	FLARING TEST	GRAIN SIZE		
			G.L. = 50 mm, Pipes tested in full section										
		Min	35000	60000	30	-		-	-	-	-		
		Max	-	-	-	99		-	-	-	-		
1	B231549		37645	64247	46.00	69 - 71		NA	OK	NA	7.0		
NON-DESTRUCTIVE TEST						SURFACE QUALITY							
Sr. No.	HEAT NO	STRAIGHTNESS	HYDRO-STATIC TEST as Per ASTM A530 (100%)	E.C.T. as Per ASTM E-309 (100%)	U.T. AS PER ASTM E-213 (100%)	VDI		IN SIDE / OUT SIDE		RA VALUE	PMI		
1	B231549	Satisfactory	2500 PSI ,OK	OK	NA	Satisfactory		Satisfactory		NA	NA		
Heat Treatment : Heat Treated Above 650°C (1200°F)													
MARKING: LBST /  / CDS/ ASTM A106B ASME SA106B ASTM A53B ASME SA53B NACE MR 0175/NACE MR0103 ISO 15156 / OD 1.05", XS/SCH 80 X WT 0.154" X LG 19 FEET / HEAT NO. B231549 / HYD. 2500 PSI / NDE / PO NO. 348254HOU / MADE IN INDIA													
REMARKS: 1. All materials are Lead (Pb) & Mercury (Hg) Free. 2. Country of manufacturer-India & country of melt source - India. 3. We hereby certify that the material herein described has been Manufactured, Sample tested & Inspected in accordance with above standard, specification & P.O requirement & result found satisfactory.													
Legends : 1. L/A - Ladle Analysis, 2. P1/A - Product Analysis One, 3. P2/A - Product Analysis Two, 4. CDS= Cold Drawn Seamless, 5. CS = Carbon Steel, 6. PM - Piercing Mill, 7. HI - Hollow Inspection, 8. STP - Surface Treatment Plant, 9. CD= Cold Drawn, 10. HT - Heat Treatment, 11. NDT - Non Destructive Testing, 12. VDI= Visual Dimension Inspection, 13. P&F - Packing & Forwarding.													
For, LAL BABA SEAMLESS TUBES PVT. LTD.													
ISSUED BY:  Sourav Maly ENGINEER (QA/QC)			COMPANY SEAL 				 Rakesh Kr. Sahoo Asst. Manager (QA/QC)						

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