



# JINDAL SAW LTD.

## WORK / MILL TEST CERTIFICATE

F / QLY / 23 R 00

T.C.NO: JSAW / Q / XP2202001028  
P.O.NO: 324031  
S.O.NO: 4111005219-10  
INV. NO : XP2202001028

DATE: 01.11.2022  
DATE: 24.06.2022  
DATE: 30.06.2022  
DATE: 01.11.2022

**PRODUCT** : HOT FINISHED NORMALISED ROLLED SEAMLESS PIPES  
**PIPE SPECIFICATION** : API 5L GR B/GR X42N PSL 2 - 46 EDITION/ASTM A 53 - 20 /ASME SA 53 GR B(ASME SEC II PART A EDITION 2021) /ASTM A 106 GR. B & C - 19a / ASME SA 106 GR. B & C (ASME SEC II PART A EDITION 2021) / NACE MR 0103 / NACE MR 0175/ / ISO 15156

PIPE DIMENSIONS		LENGTH (FEET)	END CONDITIONS	STRAIGHTNESS	HEAT NO.	QUANTITY	
OD	WT					NOS.	FEET
6.625"	0.280"	38 FEET	Bevelled End	Satisfactory	3218398	45	1709.942
6 NPS	SCH STD				3217834	49	1861.937
<b>TOTAL</b>						<b>94</b>	<b>3571.879</b>

**CHEMICAL COMPOSITION :**

Heat No.	Analysis	% C	% Mn*	% Si	% S	% P	% Cr	% Ni	% Cu	% Mo	% V	% Nb	% Ti	% B	% CE
3218398	Reqd.	0.24 Max.	0.29 - 1.06	0.10 - 0.40	0.010 Max.	0.025 Max.	0.30 Max.	0.30 Max.	0.40 Max.	0.15 Max.	0.06 Max.	0.05 Max.	0.04 Max.	0.001 Max.	0.43 Max.
	Heat	0.18	1.12	0.30	0.004	0.017	0.009	0.008	0.004	0.0040	0.0010	0.0014	0.002	0.0005	0.37
	Product	0.18	1.12	0.29	0.003	0.016	0.008	0.008	0.003	0.0040	0.0012	0.0012	0.002	0.0005	0.37
3217834	Reqd.	0.18	1.13	0.30	0.004	0.017	0.009	0.007	0.004	0.0030	0.0014	0.0014	0.003	0.0006	0.36
	Heat	0.18	1.10	0.28	0.005	0.011	0.013	0.008	0.004	0.0040	0.0010	0.0008	0.003	0.0002	0.37
	Product	0.19	1.12	0.29	0.006	0.011	0.015	0.009	0.004	0.0060	0.0012	0.0007	0.003	0.0004	0.38
	Product	0.18	1.11	0.28	0.005	0.012	0.014	0.008	0.005	0.0050	0.0011	0.0008	0.004	0.0030	0.37

\* Mn 1.20 Max as per ASME SA 53, Table 1.

**MECHANICAL TESTS :**

Heat No.	Reqd.	TENSILE TEST			HARDNESS TEST	FLATTENING TEST	HYDROSTATIC TEST (100%)	NDT TEST (100%)	Impact Test (Joule)			
		Y.S.	U.T.S.	% E G.L.= 50.00 mm					Sample Orientation : Longitudinal			
		Tensile Specimen Width 25.4 mm							200 BHN Max.	As Per Spec.	3000 PSI for 5 Seconds Minimum	AS PER ASTM E 570 at 10%
3218398	Obtained	338	507	39	150 - 152	Satisfactory	Satisfactory	Satisfactory	42	38	40	40
		345	513	33	150 - 152							
3217834	Obtained	333	534	34	152 - 154	Satisfactory	Satisfactory	Satisfactory	76	78	80	78
		340	539	33	152 - 154							

**Remarks :**

- Marking on Pipes : JSAW API SPEC 5L /ASTM A 53/ASME SA 53 GR B /ASTM A 106 / ASME SA 106 GR B / C / NACE MR 0103 / NACE MR 0175/ISO 15156 6.625" OD 0.280" WT (6 NPS SCH STD) GR B/X42N PSL2 HFS SMLS HEAT NO. 3218398/ 3217834 HYDRO 3000 PSI NDE 38 FEET LENGTH 18.97 lb/ft PO NO 324031 MADE IN INDIA
- Steel Making Process : EAF-LRF-VD-CCM, Fully Killed.
- Visual Inspection : Satisfactory
- Name of Steel Melt : Jindal Steel and Power Limited, Raigarh.
- Country of Melt : India
- Name of Pipe Manufacture : Jindal Saw Limited
- Country of Pipe Manufacture : India
- Product is free from Mercury.
- No Repairs Made By Welding.
- Heat Treatment : Normalized rolled at 900°C

T.C.AS PER EN10204 - 3.1

**We hereby certify that the material herein described has been manufactured, sampled, tested & inspected in accordance with above standard and Confirms to each Grade and specification individually & satisfy the requirements.**

Authorized Signatory  
KIRAN KUMAR (Sr. Executive - Quality)

CHECK FOR ORIGINAL WATER MARK