



# JINDAL SAW LTD.

## WORK / MILL TEST CERTIFICATE

F / QLY / 23 R 00

T.C.NO: JSAW / Q / XP2202001030 / J      DATE: 01.11.2022  
P.O.NO: 329026      DATE: 23.08.2022  
S.O.NO: 4111005280-110      DATE: 01.09.2022  
INV. NO : XP2202001030      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 GR B - 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.	METER
6.625"	0.280"	21	Bevelled Ends	Satisfactory	F09311	78	1638.052
6 NPS	SCH STD						
<b>TOTAL</b>						<b>78</b>	<b>1638.052</b>

**CHEMICAL COMPOSITION :**

Heat No.	Analysis	% C	% Mn*	% Si	% S	% P	% Cr	% Ni	% Cu	% Mo	% V	% Nb	% Ti	% B	% CE
F09311	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	0.17	1.11	0.25	0.001	0.015	0.059	0.028	0.009	0.005	0.0020	0.0010	0.004	0.0003	0.37
F09311	Product	0.17	1.11	0.25	0.001	0.014	0.058	0.027	0.008	0.006	0.0020	0.0012	0.003	0.0002	0.37
	Product	0.18	1.12	0.26	0.002	0.016	0.058	0.026	0.007	0.006	0.0022	0.0013	0.003	0.0003	0.38

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

**MECHANICAL TESTS :**

Heat No.	Reqd.	TENSILE TEST			OTHER TESTS				Impact Test (Joule)			
		Y.S.	U.T.S.	% E G.L. = 50.00	HARDNESS TEST	FLATTENING TEST	HYDROSTATIC TEST (100%)	NDT TEST (100%)	Sample Orientation : Longitudinal Size: L x W x T : 55 x 10 x 5 mm L-5-14 J at (0°C)			
		Tensile Specimen Width 25.40 mm			200 BHN Max.	As Per Spec.	3000 PSI for 5 Seconds Minimum	EMT AS PER ASTM E 570 WITH 10% NOTCH DEPTH	Sample 1	Sample 2	Sample 3	Avg.
F09311	Obtained	354	526	33	152 - 154	Satisfactory	Satisfactory	Satisfactory	76	80	66	74
		361	531	32	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 X 0.280" WT ( 6 NPS SCH STD ) GR B/X42N PSL2 HFS SMLS HEAT NO F09311 HYDRO 3000 PSI NDE 21 FEET LENGTH 18.97 lb/ft  
PO NO 329026 MADE IN INDIA
- Steel Making Process : EAF-LRF-VD-CCM, Fully Killed.
- Visual Inspection : Satisfactory
- Name of Steel Melt : JSW Steel Limited.
- 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

VIVEK GAIKWAD ( Assf. Manager - Quality)

CHECK FOR ORIGINAL WATER MARK