



T.C.NO: JSAW / Q / XP2402000084 / G  
 P.O.NO: 26.092  
 S.O.NO: 4111005986-120  
 INV.NO: XP2402000084

DATE: 04.05.2024  
 DATE: 15.03.2024  
 DATE: 21.03.2024  
 DATE: 04.05.2024

**CUSTOMER**

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**PRODUCT**

: COLD FINISHED &amp; NORMALIZED CARBON STEEL SEAMLESS PIPES

**PIPE SPECIFICATION**

: API 5L GR B / X42 PSL 1, 46th Edition/ASTM A 106 GR B-19a/ASME SA 106 GR B. (ASME SEC II PART A EDN.-2023)

PIPE DIMENSIONS		LENGTH (FEET)	END CONDITIONS	STRAIGHTNESS	HEAT NO.	QUANTITY	
OD	WT					NOS.	FEET
1.315"	0.179"	20.00	Plain Ends	Satisfactory	3322747	2548	50960.000
1 NPS	SCH XS						
<b>TOTAL</b>						<b>2548</b>	<b>50960.000</b>

**CHEMICAL COMPOSITION :**

Heat No.	Analysis	% C	% Mn *	% Si	% S	% P	% Cr	% Ni	% Cu	% Mo	% V	% Nb	% Ti	% B	Nb + V	Nb + V + Ti	% CE
		Reqd.	0.28 Max.	0.29 - 1.06	0.10 Min.	0.030 Max.	0.030 Max.	0.40 Max.	0.40 Max.	0.40 Max.	0.15 Max.	0.08 Max.	-	-	0.001 Max.	0.06 Max.	0.15 Max.
3322747	Heat	0.17	1.11	0.28	0.005	0.012	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	0.36
	Product I	0.16	1.11	0.29	0.005	0.011	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	0.35
	Product II	0.17	1.12	0.27	0.004	0.012	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	0.36

\* Mn 1.65 Max. as per Table 1 clause B of ASTM A 106

**MECHANICAL TESTS :**

Heat No.		LONGITUDINAL TENSILE TEST			HARDNESS TEST	OTHER TESTS	
		Y. S. (0.5% EUL)	U.T.S.	% E G.L= 50.00 mm		HYDROSTATIC TEST (100%)	90° BEND TEST
	Reqd.	42100 PSI Min.	60190 PSI Min.	19.00% Min.	N. A.	2500 PSI for 5 Seconds Minimum	As Per Spec.
3322747	Obtained	49455	72950	34	-	Satisfactory	Satisfactory
		Mpa	Mpa				
		341	503	33	-	Satisfactory	Satisfactory
		Mpa	Mpa				
		48295	73240	34	-	Satisfactory	Satisfactory
		Mpa	Mpa				
		333	505	30	-	Satisfactory	Satisfactory
		Mpa	Mpa				
50470	73240	30	-	Satisfactory	Satisfactory		
Mpa	Mpa						
348	505						
51486	75851						
Mpa	Mpa						
355	523						

**Remarks :**

- Steel Making Process
- Visual Inspection
- Country of melt
- Steel Supplier & Location
- Pipe manufacturer & Location

: EAF-LRF-VD-CCM, Fully Killed.  
 : Satisfactory  
 : India.  
 : Jindal Steel and Power Limited, Raigarh - 496001, Chhattisgarh, India.  
 : Jindal Saw Limited, Sinnar - 422113, Dist. : Nashik, Maharashtra, India.


6. Marking on Pipes - JSAW API SPEC 5L / ASTM A 106 GR B / ASME SA 106 GR B 1.315" OD x 0.179" WT ( 1 NPS SCH XS ) GR B / GR X42 PSL1 SMLS HYDRO 2500 PSI HEAT NO. 3322747 LENGTH 20 FEET 2.17 lb/ft CDS P.O. NO 26.092 MADE IN INDIA.

- Heat Treatment

: Normalize 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 specification & satisfy the requirements.

  
 Authorized Signatory  
 KIRAN KUMAR (SR.Executive-Q.A.)



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