



MAHARASHTRA SEAMLESS LIMITED
WORKS (MILL) TEST CERTIFICATE
EN 10204:3.1B

Customer :
P.O.No : 42456 Dtd. 04-03-2022
OC/Loading slip no. : 66210080 (Item No. 02)
Specification : ASTM A106 GR.B / API 5L GR.B / X42
Process/Type of Pipe : PSL-1 ; Not Finished seamless carbon steel pipes

OD XWT : 33.40 mm X 4.55 mm (1.315" X 0.179")
Length Range : 20 - 20 Feet
Total Length : 27280 Feet (1364 Pcs)
Material Code : _____

A) CHEMICAL COMPOSITION (%) - Reference standard ASTM A-751 & ASTM B-415

SI No	Heat No	Test Unit	Analysis	C	Mn	Si	P	S	Cr	Mo	Ni	Cu	V	Nb	Ti	Nb+V	Nb+V+Ti	B	Ca	Al	N	H	
Req.	Min.	%		0.260	1.060	0.500	0.030	0.010	0.400	0.150	0.400	0.400	0.080	0.110	0.110			0.001					
	Max.	%		0.180	1.050	0.270	0.012	0.003	0.015	0.0020	0.007	0.004	0.0030	0.0020	0.0013	0.0030	0.0063	0.0005	-	0.031			5.1
1	AB723		R	0.180	1.050	0.260	0.012	0.003	0.016	0.0010	0.006	0.005	0.0029	0.0022	0.0014	0.0051	0.0065	0.0004	-	0.032			5.1
			P1	0.180	1.050	0.260	0.012	0.002	0.016	0.0010	0.006	0.005	0.0029	0.0022	0.0014	0.0051	0.0065	0.0004	-	0.032			5.1
			P2	0.190	1.040	0.280	0.013	0.004	0.015	0.0030	0.008	0.003	0.0031	0.0019	0.0015	0.0050	0.0065	0.0005	-	0.030			5.1

C) MECHANICAL PROPERTIES

SI No	Heat No	Test Unit	Quantity	Name of the Steel Maker and Address/Supplier Heat No.	Tensile Testing (Loc Pipe Body)				Reference standard ASTM B-23														
					YSF (Mpa)	UTS (Mpa)	YSF/ UTS Ratio	El (%)	Absorbed Energy (J)		% Shear Area												
					Reference standard ASTM B70 & E-8				CVN Impact Test (Pipe Body)														
					GL=50 mm Nom. Width @ 12.70 mm				Temperature °C:														
									1 2 3 Avg 1 2 3 Avg														
Req.	Min.				290	415		30															
	Max.																						
1	AB723		1364	27280	JSW Ispat, Chhattisgarh/ M007284B	422.72	549.32	0.77	33.74													75	76
					L	426.68	554.62	0.77	33.40														
						424.22	556.26	0.76	33.26														
						419.75	547.55	0.77	33.94														

Raw Material	Polly killed & Fine Grain Practice	Dimension	Good	NDE Method	Ultrasonic Testing - GOOD
Steel Route	ZAF-LRF-VD-COM	Weight	Good	Location & Orientation	Longitudinal & Transverse Notch
Hot Rolling Temp. °C	880-940	End Finish	SQUARE CUT	Type & Size of ReIndicator	10% Notch X 50mm Length X 1.0mm
Heat Treatment	NA	Straightness	OK	Residual Magnetism	10 Gauss Max
Delivery Condition	R	Visual	OK	Fluid Weldability	NA
Norm./Temp. Temp(°C)	NA	Bend Test	OK	Flattening Test	NA
MHC	NA	SSC	NA	Micro Structure/Grain Size	Reveals fine Ferrite and pearlite
Inclusion Rating	NA	Hot Straight. Temp.°C	NA	Colour Coding	NA

D) Marking/Stamping: MAHA ((M) MSL API 5L X-42 PSL-1 / ASTM A106 GR.B / NACE MR0175 / MR0103 (% S HARDNESS CONTROLLED) BE SMLS SRL OD 1.315" X 0.179" LENGTH IN FEET + MADE IN INDIA + WEIGHT - 2.17 LB/FT + PO/SHIPPING MARK: "PO # 25.436" + B.NO.---

E) Remarks: 1) Metd Conforms to API 5L GR.B PSL-1 / X42 (EDN.2018)/ASTM/ASME A106 B (EDN.2019a)/SA106 B (EDN.2021). 2) *Country of melt and pour: INDIA.
Legends: T-Transverse, L-Longitudinal, YSF-Yield Strength, UTS-Ultimate Tensile Strength, El-Elongation, GL-Gauge Length, H-Heat, P1-Product 1, P2-Product 2, R-As Rolled, NAT-Normalized & Tempered, PE-Plain-end, SC-Stubless Thread Casts, LC-Long Round Thread Casts, SC-Short Round Thread Casts, NU-Non-upset tubing, E-Ends



The material has been manufactured, sampled, tested and inspected and has been found conforming to the specification and standards.

W & R: D-114, MIDC Industrial Area, Vile - Bhagad, Varthi wadi, Dist. Raigad, Maharashtra-402108 Phone: 9223685100

Warning: Modification or unauthorized use of this certification is strictly prohibited. Violation calls for criminal prosecution. For authenticity verification, please contact the manufacturer.

Rev. 01 Date: 31.01.2020