



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

QCF 20A

Customer :  
P.O.No : 42456 Dtd.04-03-2022  
OC/Loading slip no. : 66210080 (Item No. 04)  
Specification : ASTM A106 GR.B / API 5L GR.B / X42 PSL-1  
Process/Type of Pipe : Hot Finished seamless carbon steel pipes

OD X WT : 42.20 mm X 3.56 mm  
Length Range : 20 - 20 Feet  
Total Length : 23080 Feet ( 1154 Pcs )  
Material Code :

Test Certificate No: MSL-6/QC/0001Q/2022  
Date: 24 July 2022

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A) CHEMICAL COMPOSITION (%) - Reference standard ASTM A-751 & ASTM E-415																																	
Sl 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	Mn/C	Co+Ni	CE Pcm	CE IIW	B) Special / supplementary Reqs.							
Req.	Min.	%		0.290	0.100													0.001															
	Max.	%		0.260	1.060	0.500	0.030	0.010	0.400	0.150	0.400	0.400	0.080	0.110	0.110			0.0016	0.0036	0.0003	0.024		5.833	0.011		0.358							
1	AB272	H	P1	0.180	1.050	0.240	0.011	0.005	0.010	0.0080	0.006	0.005	0.0010	0.0006	0.0020	0.0016	0.0036	0.0003		0.025		5.474	0.013		0.367								
				0.190	1.040	0.240	0.010	0.006	0.011	0.0018	0.007	0.006	0.0008	0.0004	0.0021	0.0012	0.0033	0.0002		0.023		5.889	0.009		0.359								
				0.180	1.060	0.230	0.011	0.004	0.010	0.0010	0.005	0.004	0.0011	0.0005	0.0022	0.0016	0.0038	0.0003															
Reference standard ASTM E-23											Reference standard ASTM E-18																						
C) MECHANICAL PROPERTIES											Reference standard ASTM E-23																						
Sl No	Heat No.	Test Unit	Quantity Pcs	Feet	Name of the Steel Maker and Address/Supplier Heat No.	Tensile Testing ( Loc Pipe Body)				CVN Impact Test ( Pipe Body)				Through Wall Hardness (Pipe Body)																			
						Yield (Mpa)	UTS (Mpa)	YST/UTS Ratio	EI (%)	Absorbed Energy (J)		% Shear Area		Hardness (HRB)																			
						Size & Orientation:				Transverse Direction																							
						Temperature °C:				OD				Mid				ID															
						G.L.=50 mm Nom. Width=10.05 mm				1 2 3 Avg				1 2 3 4 Avg				1 2 3 4 Avg															
Req.	Min.					290	415		30																								
1	AB272		1154	23080	JSPL, Chhattisgarh/ 2118862	491.83	558.60	0.88	32.54													75	76	76	77	76							
Raw Material						Fully killed & Fine Grain Practice				Dimension				Good				NDE Method				Ultrasonic Testing - GOOD				End Area Inspection				OK			
Steel Route						EAF-LRF-VD-CCM				Weight				Good				Location & Orientation				Longitudinal & Transverse Notch at OD				Hydro Test Pressure				2970 Psi			
Hot Rolling Temp. °C						880-940				End Finish				SQUARE CUT				Type & Size of Ref Indicator				10% Notch X 50mm Length X 1.0mm Width				Holding Time				1 Sec.			
Heat Treatment						NA				Straightness				OK				Residual Magnetism				10 Gauss Max				End Protection				Plastic end cap			
Delivery Condition						R				Visual				OK				Field Weldability				NA				External Coating				Black Varnished			
Norm./Temp Temp(°C)						NA				Bend Test				DK				Flattening Test				NA				Flaring Test				NA			
HIC						NA				SSC				NA				Micro Structure/Grain Size				Reveals fine Ferrite and pearlite /ASTM No. 7-8				CTOD				NA			
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 1.660 INCH X WT 0.140 INCH HPS HEATNO... + 2970 PSI + LENGTH...IN FEET + MADE IN INDIA + WEIGHT - 2.27 LB/FT + PO/SHIPPING MARK : "PO # 25.436" + B.NO...																											
E) Remarks :						1) Mill Conforms to API 5L GR.B PSL-1 / X42 (EN. 2018) / ASTM/ASME A106 B (EN. 2019) / SA106 B (EN. 2021). 2) *Country of melt and pour: INDIA*.																											



Rev. 01 Dated: 31.01.2020

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

FOR MAHARASHTRA SEAMLESS LTD  
DEBTANU PAL - Asst. Engineer

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Warning: Modification or unauthorized use of this certification is strictly prohibited. Violation calls for criminal prosecution. For authenticity verification, you can contact us at: mslic@maharashseam.com.