



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

QCF 20A

Customer : 42456 Dtd. 04-03-2022
P.O.No : 66210080 (Retn No. 07)
DC/Landing slip no. : ASTM A106 GR.B / API 5L GR.B / X42 PSL-1
Specification : Hot Finished seamless carbon steel pipes
Process/Type of Pipe :

OD X WT : 48.30 mm X 5.08 mm
Length Range : 20 - 20 Feet
Total Length : 28740 Feet (1437 Pcs)
Material Code :

Test Certificate No: MSL-6/QC/0001M/2022
Date: 10 July 2022

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A) CHEMICAL COMPOSITION (%) - Reference standard ASTM A-781 & 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	Cu+Ni	CE Pcm	CE (IIP)	B) Spectral / supplementary Reqs.		
Req.	Min.	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			0.001		0.026		6.118	0.012		0.348			
1	AB700		H	0.170	1.040	0.200	0.012	0.004	0.015	0.0029	0.006	0.006	0.0011	0.0004	0.0017	0.0015	0.0032	0.0003		0.027		5.722	0.014		0.357			
			P1	0.180	1.030	0.200	0.011	0.005	0.016	0.0039	0.007	0.007	0.0009	0.0003	0.0018	0.0012	0.0030	0.0002		0.025		6.176	0.010		0.349			
			P2	0.170	1.050	0.190	0.012	0.003	0.015	0.0029	0.005	0.005	0.0012	0.0004	0.0019	0.0016	0.0035	0.0003										
C) MECHANICAL PROPERTIES																												
Reference standard ASTM 370 & 38														Reference standard ASTM E-23										Reference standard ASTM E-18				
Sl No	Heat No	Test Unit	Quantity	Name of the Steel Maker and Address/Supplier Heat No.	Tensile Testing (Long Pipe Body)				CVN Impact Test (Pipe Body)						Through Wall Hardness (Pipe Body)													
			Pcs	Feet	Orients.	YST (Mpa)	UTS (Mpa)	YST/UTS Ratio	El (%)	Absorbed Energy (J)						Hardness (HRB)												
						G.L.=50 mm Nom. Width= 19.05 mm				Temperature °C						Transverse Direction												
										1 2 3 Avg 1 2 3 Avg 1 2 3 4 Avg 1 2 3 4 Avg																		
Req.	Min.	Max.				290	415		30																			
1	AB700		1437	28740	JSP, Chhattisgarh/ 2215418	410.11	532.13	0.77	35.02							74 75 75 74 74												
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	Bevel	Type & Size of Reindicator	10% Notch X 50mm Length X 1.0mm Width	Holding Time	5 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	OK	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) MSLAPI 5L X-42 PSL-1 / ASTM A106 GR.B / NACE MR0175/ MR0103(% S HARDNESS CONTROLLED) BE SMLS SRL OD 1.900 INCH X WT 0.200 INCH HPS HEATNO... + 2970 PSI + LENGTH... IN FEET + MADE IN INDIA + WEIGHT - 3.63 LB/FT + PO/SHIPPING MARK: "PO # 25.436" + E.NO...																							
E) Remarks :					1) Matl Confirms to API 5L GR.B PSL-1 / X42 (EDN. 2019)/ ASTM/ASME A106 B (EDN. 2019)/ SA106 B (EDN. 2021). 2) "Country of mill and pour: INDIA".																							

Legends: Y-Transverse, L-Longitudinal, YST-Yield Strength, UTS-Ultimate Tensile Strength, El-Elongation, G.L-Gauge Length, H-Heat, P1-Product 1, P2-Product 2, R-As Rolled, Q-Quenched & Tempered, N-Normalized, N&T-Normalized & Tempered, PE-Plain-end, BC-Butress Thread Casings, LC-Long Round Thread Casings, SC-Short Round Thread Casings, NU-Non-upset tubing, EU-External Upset tubing, NA- Not Applicable



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

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 msltr@mahaseam.com.

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