



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

QCF 20A

Customer :
P.O.No : 42456 Dtd. 04-03-2022
DC/Loading slip no. : 66210080 (Item No. 06)
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 : 48.30 mm X 3.68 mm
Length Range : 20 - 20 Feet
Total Length : 12420 Feet (621 Pcs)
Material Code : -----

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

A) CHEMICAL COMPOSITION (%) - Reference standard ASTM A-751 & ASTM E-413																											
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	Mo/C	Cu+Ni	CE Pcm	CE IIW	B) Spectral / supplementary Reqs.	
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									
1	AB206		H	0.170	1.040	0.210	0.012	0.005	0.010	0.0030	0.006	0.004	0.0007	0.0005	0.0020	0.0012	0.0032	0.0003					6.118	0.010		0.347	
			P1	0.180	1.030	0.210	0.011	0.006	0.011	0.0040	0.007	0.005	0.0005	0.0004	0.0021	0.0009	0.0030	0.0002					5.722	0.012		0.356	
			P2	0.170	1.050	0.200	0.012	0.004	0.010	0.0030	0.005	0.003	0.0008	0.0007	0.0022	0.0015	0.0037	0.0003					6.176	0.008		0.348	
C) MECHANICAL PROPERTIES																											
SI No	Heat No	Test Unit	Quantity Pcs	Feet	Name of the Steel Maker and Address/Supplier Heat No.	Reference standard ASTM 370 & B-6 Tensile Testing (Loc Pipe Body)					Reference standard ASTM E-23 CVN Impact Test (Pipe Body)					Reference standard ASTM E-18 Through Wall Hardness (Pipe Body)											
						Ortenus	YST (Mpa)	UTS (Mpa)	YST/ UTS Ratio	EI (%)	Absorbed Energy (J)		% Shear Area	Hardness (HRB)													
											Size & Orientation			Transverse Direction													
G.L=50 mm Nom. Width= 19.05 mm						Temperature °C:					OD					Mid					ID						
Req.	Min.					290	415		30																		
1	AB206		621	12420	ISPL, Chhattisgarh/ 3118945	391.79	486.23	0.81	37.00													74	75	75	74	74	
						397.62	490.22	0.81	36.70																		
Raw Material		Fully killed & Fine Grain Practice				Dimension	Good		NDE Method	Ultrasonic Testing - GOOD					End Area Inspection	OK											
Steel Route		EAF-LRF-VD-COM				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/Stencilling : MAHA ((M) MSL API 5L X-42 PSL-1 / ASTM A106 GR.B / NACE MR0175/ MR0103(% S HARDNESS CONTROLLED) BE SH2S SRL OD 1.900 INCH X WT 0.145 INCH HFS HEATNO... + 2970 PSI + LENGTH...IN FEET + MADE IN INDIA + WEIGHT - 2.72 LB/FT + PO/SHIPPING MARK : "PO # 25.436" + B.NO...																											
E) Remarks : 1) Matl Confirms 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*.																											



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 immediate prosecution. For authenticity verification, you can contact us at: msdte@mahaseam.com.