



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.05)
 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 4.85 mm (1.661" X 0.190")
 Length Range : 20 - 20 Feet
 Total Length : 30020 Feet (1501 Pcs)
 Material Code :

Test Certificate No. : MSL-6/QC/0001AA/2022
 Date : 04 September 2022

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	Cu+Ni	CE Pcm	CE IIW	B) Special / 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										
	Max.	%		0.170	1.040	0.230	0.014	0.004	0.001	0.0040	0.007	0.400	0.0010	0.0012	0.0010	0.0022	0.0032	0.0002			0.029		6.118	0.011			0.345	
1	AB782		H	0.170	1.040	0.230	0.014	0.004	0.001	0.0040	0.007	0.400	0.0010	0.0012	0.0010	0.0022	0.0032	0.0002			0.029		6.118	0.011		0.345		
			P1	0.170	1.040	0.220	0.014	0.003	0.002	0.0030	0.006	0.005	0.0009	0.0013	0.0011	0.0022	0.0033	0.0003			0.030		6.118	0.011		0.345		
			P2	0.180	1.030	0.240	0.015	0.005	0.001	0.0050	0.008	0.003	0.0011	0.0010	0.0012	0.0021	0.0033	0.0002			0.028		5.722	0.011		0.354		
			C) MECHANICAL PROPERTIES																									
Reference standard ASTM 370 & B-8				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 (Loc. Pipe Body)				CVN Impact Test (Pipe Body)				Through Wall Hardness (Pipe Body)														
			Pcs	Feet		Yield (Mpa)	UTS (Mpa)	YST/UTS Ratio	El (%)	Absorbed Energy (J)		% Shear Area		Hardness (HRB)														
Req.	Min.	Max.				290	415		30	Size & Orientation:				Transverse Direction														
										G.L.=50 mm Nom. Width= 19.05 mm				Temperature°C :				OD				Mid				ID		
						1	2	3	Avg	1	2	3	Avg	1	2	3	4	Avg	1	2	3	4	Avg	1	2	3	4	Avg
1	AB782		1501	30020	JSPL, Chhattisgarh/ 3218467																							
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 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/Stenciling :		MAHA (M) MSL API 5L GR.B / X42 PSL-1 / ASTM A106 GR.B / NACE MR0175/ MR0103 (%S & HARDNESS CONTROLLED) PE SMLS SRL OD 1.661 INCH X WT 0.190 INCH HFS HEAT NO... + 2970 PSI + LENGTH... IN FEET + WEIGHT + 3.00 LB/FT + MADE IN INDIA + 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".																										

Legends : T-Transverse, L-Longitudinal, YST-Yield Strength, UTS-Ultimate Tensile Strength, EL-Elongation, GL-Gauge Length, H-Heat, P1-Product 1, P2-Product 2, R-As Rolled, Q-Quenched & Tempered, N-Normalised, N&T-Normalised & Tempered, PE-Plain-end, BC-Buttress Thread Casing, LC-Long Round Thread Casing, SC-Short Round Thread Casing, 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

W & R.O : D-114, MIDC Industrial Area, Vile - Bhagad, Varchiwadi, Dist. Raigad, Maharashtra-402308 Phone : 9223685171

FOR MAHARASHTRA SEAMLESS LTD
 DEBTANU PAL - Asst. Engineer

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@mahaseam.com.