



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

QCF 20A

Customer : 12682 Dated: 28-FEB-22
P.O.No : 66210079 (Item No. 01)
OC/Landing slip no. : ASTM A106 Gr.B; API 5L Gr.B/X42 PSL-1
Specification : Not Finished seamless carbon steel pipes
Process/Type of Pipe :

OD X WT : 114.30 mm X 8.56 mm
Length Range : 20 - 20 Feet
Total Length : 4620 Feet (231 Pcs)
Material Code :

Test Certificate No: MSL-6/QC/0001E/2022
Date: 07 June 2022

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A) CHEMICAL COMPOSITION (%) - Reference standard ASTM A-751 & ASTM E-415																				B) Special / supplementary Reqs.					
SI No	Heat No	Test Unit	Apply to	C	Mn	SI	P	S	Cr	Mo	Ni	Cu	V	Nb	Ti	Nb+V+Ti	B	Ca	Al	N	Mn/C	Cu/M	CE Pcm	CE IIV	
1	AB662	H	P1	0.260	1.060	0.500	0.020	0.010	0.400	0.150	0.400	0.400	0.080	0.110	0.110		0.0025	0.0014	0.0039	0.0003	0.029	5.882	0.014		0.345
				0.170	1.800	0.250	0.012	0.004	0.031	0.0026	0.009	0.006	0.0011	0.0003	0.0025	0.0014	0.0039	0.0003	0.030	5.882	0.014		0.345		
				0.180	0.990	0.260	0.013	0.005	0.031	0.0035	0.009	0.005	0.0012	0.0003	0.0027	0.0015	0.0047	0.0004	0.028	5.500	0.014		0.353		
2	AB696	H	P1	0.170	1.030	0.260	0.014	0.004	0.018	0.0032	0.012	0.006	0.0012	0.0002	0.0022	0.0014	0.0036	0.0003	0.034	6.059	0.018		0.347		
				0.170	1.830	0.250	0.014	0.003	0.019	0.0022	0.011	0.007	0.0011	0.0003	0.0023	0.0014	0.0037	0.0003	0.035	6.059	0.018		0.347		
				0.180	1.020	0.270	0.015	0.005	0.018	0.0042	0.013	0.005	0.0013	0.0004	0.0024	0.0017	0.0041	0.0004	0.033	5.667	0.018		0.356		
3	AB700	H	P1	0.170	1.040	0.200	0.012	0.004	0.015	0.0029	0.006	0.006	0.0011	0.0004	0.0017	0.0019	0.0032	0.0003	0.026	6.118	0.012		0.348		
				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	0.027	5.722	0.014		0.357		
				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	0.025	6.176	0.010		0.349		

C) MECHANICAL PROPERTIES										Reference standard ASTM E-18															
SI No	Heat No	Test Unit	Quantity	Name of the Steel	Tensile Testing (Long Pipe Body)				CVN Impact Test (Pipe Body)				Hardness (HRB)												
					YST (Mpa)	UTS (Mpa)	YST/UTS Ratio	El (%)	Absorbed Energy (J)	% Charpy Area	Transverse Direction														
					G.L.=50 mm Nom. Width=25.40 mm				Temperature: °C				ID												
									1 2 3 Avg				1 2 3 4 Avg												
Req.	Min.				290	414		30																	
1	AB662	43	860	ISPL Chhattisgarh/ 2215245	L	357.86	478.44	0.75	37.80												74	75	75	74	74
2	AB696	13B	2760	ISPL Chhattisgarh/ 2215424	L	348.52	496.29	0.70	36.62												77	78	78	78	78
3	AB700	50	1008	ISPL Chhattisgarh/ 2215418	L	345.78	494.39	0.70	37.34												79	78	79	79	79

Raw Material	Fully killed & Fine Grain Practice	Dimension	Good	NDE Method	Ultrasonic Testing - Good
Steel Grade	SAF-LRF-VD-CCM	Weight	Good	Location & Orientation	Longitudinal & Transverse Notch at OD & ID
Hot Rolling Temp. °C	B50-940	End Finish	Bevel	Type & Size of End Indicator	10% Notch X 50mm Length X 1.8mm Width
Heat Treatment	NA	Straightness	OK	Residual Magnetism	1.0 Gauss Max
Delivery Condition	R	Visual	OK	Flattening Test	OK
Welding	NA	Bend Test	NA	Micro Structure/Grain Size	Reveals fine Ferrite and pearlite /ASTM No. 7-8
Hot Temp. °C	NA	SSC	NA	Colour Coding	NA
HTC	NA	Hot Straight Temp. °C	NA		

Inclusion Rating: NA
 D) Marking/Stamping: MSL (M) MSL API 5L X-42 PSL-1 / ASTM A106 GR.B / NACE MR0175 / MR0103 (% S HARDNESS CONTROLLED) RE SMLS SRL OD 4.500 INCH X WT 0.337 INCH HPS HEATNO. + 2970 PSL + LENGTH IN FEET + MADE IN INDIA + WEIGHT - 15.00 LB/FT + PO/SHIPPING MARK: "PO # 25.426" + RND



Remarks:
 1) Max. 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". 3) Revised TC Rev.01 Dtd. 01-08-2022.
 Legends: T-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-Ax Rolled, Q-Quenched & Tempered, N-Normalised, M&T-Normalised & Tempered, P0-Plain-end, BC-Buttress Thread Casting, LC-Long Round Thread Casting, SC-Short Round Thread Casting, NU-Non-union tubing, BU-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: D-114, MIDC Industrial Area, Vile - Ebagad, Varchhivadi, Dist. Raigad, Maharashtra-402308 Phone: 9223651171
 Warning: Modification or unauthorized use of this certification is strictly prohibited. Violation calls for criminal prosecution. For authenticity verification, you can contact us at mail@mahaseamless.com.
 FOR MAHARASHTRA SEAMLESS LTD
 DEBTANU PAL - Asst. Engineer

Rev. 01 Date: 21.01.2020