



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

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**QCF-20**

Customer	42456 DL 04-MAR-22	OD X Wall Thick ((Inch))	6.825 X 0.280	Test Certificate No.	MSL-7/OC/0011/2022
P.O. No.	16210145	Length Range (FEET)	20 to 20	Date	04-APR-22
QC / Loading Stp No.	16210145	Total Length (FEET)	5480 (274 Pcs.)		
Specification	API 5L GR.B/X-42 PSL-1 (2018) ASTM ASME A SA 108 GR.B, ASME SA 53 GR.B (2018) ASTM A 53 GR.B 2020	Material Code			
Process/Type of Pipe	Hot Finish Seamless Carbon Steel Pipes				

A) CHEMICAL COMPOSITION (%) - Reference standard ASTM A-751 & ASTM E-415																							B) Special/Suppl. Reqs.			
Sr. 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	AWN	Cu+Ni	CE Pcm	CE (IIV)	
Req.	Min			0.280	1.200	0.030	0.010	0.005	0.150	0.400	0.400	0.030				0.030	0.1500	0.0010								
1	AB447		H	0.180	1.080	0.300	0.014	0.004	0.015	0.002	0.005	0.005	0.0030	0.0017	0.0022	0.0037	0.0069	0.0032	0.0022	0.027	0.0054	4.22	0.0100		0.384	
			P1	0.179	1.089	0.290	0.013	0.005	0.016	0.002	0.005	0.005	0.0020	0.0010	0.0010	0.0030	0.0040	0.0021	0.0000	0.026	0.0030	.00	0.0100		0.365	
			P2	0.185	1.078	0.250	0.012	0.004	0.019	0.002	0.005	0.005	0.0030	0.0010	0.0010	0.0040	0.0050	0.0021	0.0000	0.025	0.0030	.00	0.0100		0.370	
2	AB624		H	0.180	1.030	0.200	0.014	0.007	0.021	0.002	0.005	0.005	0.0020	0.0010	0.0021	0.0030	0.0051	0.0033	0.0024	0.025	0.0038	3.79	0.0100		0.337	
			P1	0.184	1.038	0.220	0.012	0.007	0.019	0.001	0.004	0.004	0.0010	0.0010	0.0010	0.0020	0.0030	0.0021	0.0000	0.024	0.0030	.00	0.0080		0.342	
			P2	0.157	1.025	0.195	0.013	0.006	0.017	0.001	0.003	0.003	0.0010	0.0010	0.0010	0.0020	0.0030	0.0021	0.0000	0.023	0.0030	.00	0.0080		0.332	
3	AB631		H	0.170	1.040	0.200	0.017	0.004	0.020	0.002	0.005	0.005	0.0020	0.0010	0.0018	0.0030	0.0048	0.0033	0.0018	0.025	0.0035	4.00	0.0100		0.349	
			P1	0.174	1.033	0.228	0.015	0.004	0.018	0.002	0.003	0.003	0.0020	0.0010	0.0010	0.0030	0.0040	0.0021	0.0000	0.024	0.0030	.00	0.0080		0.351	
			P2	0.167	1.045	0.198	0.016	0.004	0.018	0.002	0.004	0.004	0.0020	0.0010	0.0010	0.0030	0.0040	0.0021	0.0000	0.025	0.0030	.00	0.0080		0.348	

C) MECHANICAL PROPERTIES				Reference standard ASTM A 370 & E-8				Reference standard ASTM A370 & 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 (Location: Pipe Body)				CVN Impact Test (Pipe Body)				Through Wall Hardness (Pipe Body)												
					YST (P#)	UTS (P#)	YST/UTS Ratio	EL(%)	Absorbed Energy (J)		% Shear Area	Hardness (HRB)													
Req.	Min				42100	60200		24	Temperature:		Size & Orientn.: mm		Transverse Direction												
	Max						.93		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
																									99 HRB
1	AB447		54	1000	JSPL, Chaitisgarh / 3121821	L	51904	73953	0.70	33															
2	AB624		84	1600	JSPL, Chaitisgarh / 3124266	L	50224	69832	0.72	32															74 76 74 76
3	AB631		135	2720	JSPL, Chaitisgarh / 3124261	L	52211	75029	0.70	35															75 78 74 77





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

Customer	42456 Dt. 04-MAR-22	OD X Wall Thick ((Inch))	8.625 X 0.280	Test Certificate No.	MSL-70C/0011/2022
P.O. No.	16210145	Length Range (FEET)	20 to 20	Date	04-APR-22
OC / Loading Slip No.	API 5L GR.B/X-42 PSL-1 (2018) ASTM/ASME A/SA 106 GR.B, ASME SA 53 GR.B (2018) ASTM A 53 GR.B 2020	Total Length (FEET)	5480 (274 Pcs.)		
Specification	Hot Finished Seamless Carbon Steel Pipes	Material Code			
Process/Type of Pipe					

Raw Material	Fully Killed & Fine Grain practice	Dimension	Good	NDE-Method	NA	End Area Inspection	NA
Steel Route	EAF-LRF-VO-CCM	Weight	Good	Location & Orientation	NA	Hydro Test Pressure	2700 Psi
Hot Rolling Temp. C	900-980	End Finish	BEVEL	Type & Size of Ref.Indicator	NA	Holding Time	5sec.
Heat Treatment	NA	Straightness	Good	Residual Magnesium	20 GAUSS MAX	End Protection	PLASTIC END CAP
Delivery Condition	R	Visual	Good	Flattening Test	OK	External Coating	Varnished
Norm./Temp. Temp.	NA	Bond Test	NA	Micro Structure/Grain Size	Reveals fine Ferrite and pearlite / ASTM No. 7-8	Flaring Test	NA
HIC	NA	SSC	NA	Colour Coding	NA	CTOD	NA
Inclusion Rating	NA	Hot Straight Temp. C	NA				

D) Marking/Stamping: MAHA MSL API 5L GR.B/X42 PSL-1, ASTM/ASME A/SA 106 GR.B, A53 GR.B, BE SRL OD 8.625 INCH X WT 0.280 INCH X LENGTH IN FT SMLS HEAT NO., 2700 PSI + WEIGHT = 18.99 LB/FT + MADE IN INDIA + PO. NO. 25.436 + PIPE NO. + B. NO.  
 E) Remarks : Material conforms to NACE MR-0175/MR-0103 restricted to Sulphur contents 0.01% & Hardness 22 HRE max. Country of Melt and Pour : INDIA

Legende : T-Transverse, L-Longitudinal, YST- Yield Strength, UTS-Ultimate Tensile Strength, EL-Elongation, GL-Gauge Length, H-Heat, P1-Product1, P2-Product2, R- As Rolled, Q-Quenched & Tempered, N- Normalised, Ht-Normalised &Tempered, NA -Not Applicable.

The Material has been manufactured, sampled, tested and inspected and has been found conforming to the specification and PO. All the specifications refers in this certificate for all of latest edition.

FOR MAHARASHTRA SEAMLESS LIMITED  
 R.K. Srivastava  
 Asst. Engineer (QC)

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 Warning: Modification or unauthorised use of this certification is strictly prohibited. Violation calls for criminal prosecution. For authenticity verification, you can contact at: mslc@mahoseam.com

Rev 09 Date:01/01/2020

