



MAHARASHTRA SEAMLESS LIMITED
WORKS (MILL) TEST CERTIFICATE

QCF 20A

Test Certificate No.: MSL-6/QC/00010/2022
Date: 20 July 2022

OD XWT : 33.40 mm X 3.38 mm
Length Range : 20 - 20 Feet
Total Length : 10380 Feet (519 Pcs)
Material Code :

Customer : 42456 Dtd. 04-03-2022
P.O.No : 66210080 (Item No. 01)
OC/Loading slip no. : ASTM A106 GR.B / APTSL GR.B / X42 PSL-1
Specification : Hot Finished seamless carbon steel pipes
Process/Type of Pipe :

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A) CHEMICAL COMPOSITION (%) - Reference standard ASTM A-751 & ASTM E-415																																	
SI No	Heat No	Test Unit	Analy sis	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 Reqts							
Req.	Min.	Max.	%	0.260	0.290	0.100	0.030	0.010	0.400	0.150	0.400	0.400	0.080	0.110	0.110	0.001	0.001	0.001	0.032	0.032	0.032	6.059	0.011	0.349									
1	AB204		R	0.170	1.030	0.240	0.017	0.004	0.024	0.0020	0.006	0.005	0.0020	0.0010	0.0023	0.0030	0.0053	0.0003	0.0033	0.033	0.033	6.059	0.011	0.358									
			P1	0.170	1.030	0.230	0.017	0.003	0.025	0.0019	0.005	0.006	0.0019	0.0012	0.0024	0.0031	0.0055	0.0004	0.033	0.033	0.033	6.059	0.011	0.358									
			P2	0.180	1.020	0.250	0.018	0.005	0.024	0.0021	0.007	0.004	0.0021	0.0011	0.0025	0.0032	0.0057	0.0003	0.031	0.031	0.031	5.667	0.011	0.341									
C) MECHANICAL PROPERTIES																																	
SI 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)			Hardness (HRB)																				
			Per Feet	YST (Mpa)	UTS (Mpa)	YST/UTS Ratio	EI (%)	Size & Orientation	Absorbed Energy (J)	% Shear Area	Transverse Direction																						
				G.L.=50 mm Nom. Widths 12.70 mm			Temperature °C:			Through Wall Hardness (Pipe Body)																							
Req.	Min.	Max.		290	415	30		1	2	3	Avg	1	2	3	4	Avg	1	2	3	4	Avg	1	2	3	4	Avg							
1	AB204		519	10380	JSP, Chhattisgarh/3118615	0.80	31.26																										
Raw Material				Fully killed & Fine Grain Practice			Dimension			NOE Method			Ultrasound Testing - GOOD			End Area Inspection			OK														
Steel Route				EAF-LRF-VD-CCM			Weight			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 Refradiator			10% Notch X 50mm Length X 1.0mm Width			Holding Time			5 Sec.											
Heat Treatment				NA			Straightness			OK			Residual Magnesium			10 Gauge 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-B			CTOD			NA											
Inclusion Rating				NA			Hot Straight Temp.°C			NA			Colour Coding			NA																	
D) Marking/Stenciling:				MAHA (M) MSL APTSL X-42 PSL-1 / ASTM A106 GR.B / NACE MR0175 / MR0103 (% S HARDNESS CONTROLLED) BE SEMS SRL OD 1.315 INCH X WT 0.133 INCH HFS HEATNO.... + 2970 PSI + LENGTH...IN FEET + MADE IN INDIA + WEIGHT - 1.68 LB/FT + PO/SHIPPING MARK : "PO # 25.4.36" + B.NO....																													
E) Remarks :				1) Matl Conforms to APTSL GR.B PSL-1 / X42 (EDN.2018) / ASTM/A506 B (EDN.2019) / SA106 B (EDN.2021). 2) Country of mesh and pour : INDIA*.																													

Legends : T-Transverse, L-Longitudinal, YST-Yield Strength, UTS-Ultimate Tensile Strength, EI-Elongation, GL-Gauge Length, H-Heat, P1-Product 1, P2-Product 2, R-As Rolled, Q-Quenched & Tempered, N-Normalised, 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 certificate is strictly prohibited. Violation calls for criminal prosecution. For authenticity verification, you can contact us at: matc@mahaseam.com.

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