

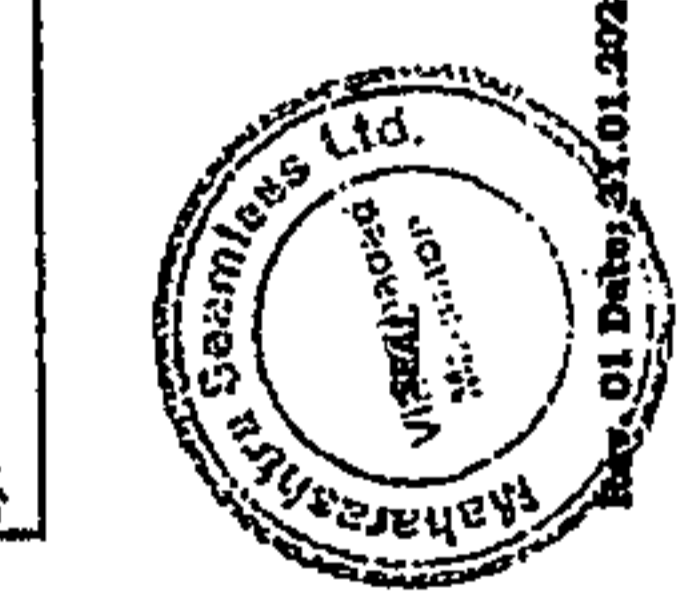


MAHARASHTRA SEAMLESS LIMITED
WORKS (MILL) TEST CERTIFICATE

QCF 20A

Customer : 42456 Dtd. 04-03-2022
 P.O.No : 66210080 (Item No. 05)
 OC/Loading slip no. : ASTM A106 GR.B / API 5L GR.B / X42 PSL-1
 Specification : Hot Finished seamless carbon steel pipes
 Process/Type of Pipe :
 EN 10204 : 3.1B
 ODX 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																								
SI No	Heat No	Test Unit	C	Mn	Si	P	S	Cr	Mo	Ni	Ch	V	Nb	Ti	Nb+V+Ti	B	Co	Al	N	Mn/C	Cu+Ni	CE Pcm	CE IHW	E) Special / supplementary Reqs.
Req.	Min.	Max.																						
1	AB782	%	0.290	1.060	0.500	0.030	0.010	0.400	0.150	0.400	0.400	0.080	0.110	0.110	0.001	0.002	0.002	0.029	6.118	0.011	0.011	0.345	0.345	
		%	0.170	1.040	0.230	0.014	0.004	0.001	0.0040	0.007	0.004	0.0010	0.0012	0.0010	0.0002	0.0032	0.0002	0.030	6.118	0.011	0.011	0.345	0.345	
			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	0.028	5.722	0.011	0.011	0.354	0.354	
			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						
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)		YST (Mpa)		UTS (Mpa)		YTS/UTS Ratio		CPN Impact Test (Pipe Body)		% Shear Area		Reference standard ASTM E-18						
Req.	Min.	Max.	Pcs			Orientn.		YS (Mpa)		UTS (Mpa)		Ratio		Avg		Hardness (HRB)		Through Wall Hardness (Pipe Body)						
1	AB782		1501	JSPIL, Chhattisgarh/3218467		GL=50 mm Norm. Width= 19.05 mm		290		415		30		3		3		Reference standard ASTM E-18						
								391.21		494.28		0.79		3		3		Reference standard ASTM E-18						
								397.62		499.51		0.80		3		3		Reference standard ASTM E-18						
								394.22		496.24		0.79		3		3		Reference standard ASTM E-18						
								390.22		492.36		0.79		3		3		Reference standard ASTM E-18						
D) Marking/Stamping :																								
MAHA (M) MSL API 5L GR.B / X42 PSL-1 / ASTM A106 GR.B / NACE MR0175 / MR0103 (S&S & HARDNESS CONTROLLED) PESMLS 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# 25436" + BANO.																								
E) Remarks :																								
1) Mark Confirms to API 5L GR.B PSL-1 / X42 (EDN. 2016) / ASTM/ASME A106 B (EDN. 2019a) / SA106 B (EDN. 2021). 2) Country of melt and pour : INDIA. Legend : 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-Pipe-end, BC-Buttress Thread Casting, LC-Long Round Thread Casting, SC-Short Round Thread Casting, NI-Non-upset tubular, EI-External upset tubular, NA-Not Applicable																								



FOR MAHARASHTRA SEAMLESS LTD
 DEBTANU PAL - Asst. Engineer

The material has been manufactured, sampled, tested and inspected and has been found conforming to the specification and PO
 W & B. O. D-114, MIDC Industrial Area, Vile - Bhagad, Vardhivadi Dist. Road, Maharashtra-402108 Phone 19223685171
 Warning : Modification or unauthorized use of this certification is strictly prohibited. Violation calls for criminal prosecution. For authenticity verification, you can contact us at mslibe@mahaseam.com.
 Date: 01 Dec 2022