

MAHARASHTRA SEAMLESS LIMITED
WORKS (MILL) TEST CERTIFICATE

Test Certificate No. MSL-7/OC/2703A/Z021
Date 31-MAR-22

OD X Wall Thick (Inch) 6.625 X 0.432
Length Range (FEET) 20 to 20
Total Length (FEET) 1280 (64 Pcs.)
Material Code

Customer 42458 DL 04-MAR-22
P.O. No. 16210145
OC / Loading Slip No. API 5L GR. B X 42 PSL-1 (2018) ASTM ASME A SA 106 GR. B.
Specification ASME SA 53 GR. B (2018) ASTM A 53 GR. B 2020
Process/Type of Pipe Hot Finished Seamless Carbon Steel Pipes

Sr. No.	A) CHEMICAL COMPOSITION (%) - Reference standard ASTM A-751 & ASTM E-415											B) Spectra./Suppl. Reqts.												
	Heat No.	C	Mn	Si	P	S	Cr	Mo	Ni	Cu	V	Nb	Ti	Nb+V	Ti	Nb+V+Ti	B	Ca	Al	N	APN	Cu+Ni	CE Pcm	CE (IMV)
1	ABS66	0.280	0.290	0.100	0.030	0.010	0.400	0.150	0.400	0.400	0.030	0.015	0.020	0.0075	0.0050	0.0000	0.0016	0.035	0.0077	4.55	0.0150	0.0120	0.342	0.345
		0.165	1.030	0.230	0.016	0.005	0.016	0.001	0.009	0.008	0.0030	0.0010	0.0010	0.0080	0.0070	0.0001	0.0001	0.0000	0.034	0.0000	.00	0.0120	0.345	0.340
		0.169	1.026	0.227	0.014	0.005	0.014	0.001	0.007	0.006	0.0050	0.0010	0.0010	0.0080	0.0070	0.0001	0.0001	0.0000	0.033	0.0000	.00	0.0120	0.340	0.340
		0.162	1.038	0.235	0.015	0.005	0.015	0.001	0.006	0.004	0.0040	0.0010	0.0010	0.0060	0.0050	0.0001	0.0001	0.0000	0.033	0.0000	.00	0.0120	0.340	0.340

Sl. No.	Heat No.	Test Unit	Quantity	Name of the Steel Maker and address / Supplier Heat No.	Reference standard ASTM A 370 & E-8				Reference standard ASTM A370 & ASTM E-23				Reference standard ASTM E-18			
					Tensile Testing (Location: Pipe Body)		CVN Impact Test (Pipe Body)		Through Wall Hardness (Pipe Body)		Through Wall Hardness (Pipe Body)		Through Wall Hardness (Pipe Body)		Through Wall Hardness (Pipe Body)	
Req.	Min.	Max.	Min.	Max.	Yield (Psi)	UTS (Psi)	YST/UTS Ratio	EL (%)	Absorbed Energy (J)	Size & Orient. mm	% Shear Area	Hardness (HRB)	Transverse Direction	Mid	ID	
1	ABS66		64	1280	42100	60200	.93	24	42100	60200	.93	99 HRB	74	75	76	

Raw Material	Steel Route	Hot Rolling Temp. C	Heat Treatment	Delivery Condition	Norm./Temp. Temp.	Inclusion Rating	NDE-Method		Location & Orientation		Type & Size of Ref. Indicator		Residual Magnetism		Field Weldability		Flattening Test		Micro Structure/Grain Size		Colour Coding	
							Good	Good	BEVEL	Good	Good	Good	NA	NA	Micro Structure/Grain Size	Colour Coding						
JSW Ipat Special Products Ltd. Monnet, Chhatishgarh / M005948B	Fully Killed & Fine Grain practice	EAF-LRF-VD-CCM	900-960	R	NA	NA	Good	Good	BEVEL	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good

D) Marking/Stenciling: MAHA INDIA + PO. NO. 25438 + PIPE NO. + B. NO.
 E) Remarks: Material conforms to NACE MR-0175/MSR-0103 restricted to Sulphur contents 0.01% & Hardness 22 HRC max. Country of Melt and Pour: INDIA
 MSL API 5L GR. B X 42 PSL-1, ASTM ASME A SA 106 GR. B, A SA 53 GR. B, BE SRL OD 6.625 INCH X WT 0.432 INCH X LENGTH IN FT SMLS HEAT NO. 3000 PSI + WEIGHT = 28.60 LB/FT + MADE IN INDIA

Legends: T-Transverse, L-Longitudinal, YST- Yield Strength, UTS-Ultimate Tensile Strength, EL-Elongation, GI-Gauge Length, H-Heat, PI-Product 1, P2-Product 2, R- As Rolled, Q-Quenched & Tempered, N- Normalised, NT-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. Shrivastava
 Asst. Engineer (QC)



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