



TEST CERTIFICATE ACC TO EN: 10204: 3.2 Draft Format No. QFB-QU-14/R-02

Test Certificate No. :TU332426	Date: 28-NOV-2022
W.O. No. :QFSU198585	
Invoice No. :	Date:

P.O.No : BWS22ISMT008F Date: 14-SEP-2022
 Customer Item : ITEM SR.NO.4 SEAMLESS STEEL TUBE 1.66" X 0.191"
 Specification : ASTM A53/A53M-20 Grade B ASTM A106/A106M-19a Grade B/ASME BPVC SA-53/SA-53M/SA-106/SA-106M Grade B SECTION II, PART A Edition 2021/ NACE MR 0175/NACE MR 0103

Product : HOT FINISHED SEAMLESS STEEL PIPE ✓
 Ends : PLAIN ENDS Bearing No. / Part No.: NA
 Heat Number : 9317N ✓ Steel Grade : ISMT-2 Batch Number : BUK311
 Steel Supplier: ISMT STEEL, JEJURI, PUNE Manufacturing Route: EAF-LRF-VD-CCM(Fully killed)

Dimensions		Tolerance		Tolerance Inch		Quantity		
MM	Inch	+Ve	-Ve UOM	+Ve	-Ve	Number	Meter / Feet	Weight
OD : 42.200 ✓	1.661	0.400	-0.400 MM	0.0157	-0.0157	1159 ✓	7410.180 / 24312.801	33.120 Ton
ID : 32.500	1.280	0.000	0.000 P					
WT: 4.850 ✓	0.191	10.000	-10.000 P					
						Length: R/ 5791.200 - 6705.600 MM, R/ 19.001 - 22.001 Feet		

% Chemical Composition (EL) – ASTM A751-21 Mechanical Properties : ASME SA/ASTM A370-21/ASTM E8/E8M-22/E18-22/E10-18

EL	UOM	Min	Max	Mill	Product1	Product2	YS (ReH) PSI 0.2% PS	U.T.S. (Rm) PSI	% E (A) 50.00MM	Sample		Surface Hardness HBW	Tensile specimen Dimensions			
										Loca tion	Orien tation		Type	Width (mm)	WT (mm)	
C	%		0.3000	0.1700	0.1720	0.1710										
Si	%	0.1000		0.2400	0.2400	0.2420										
S	%		0.0350	0.0030	0.0030	0.0028	Min	35000.00	60000.00	22.00						
P	%		0.0350	0.0140	0.0130	0.0150	Max					237.00				
Mn	%	0.2900	1.0600	0.6300	0.6320	0.6350	1	49324.67	72977.19	33.56	P	L	139 - 141 ✓	Strip	18.95	4.92
Ni	%		0.4000	0.0600	0.0610	0.0620	2	50533.61	72166.49	32.44	P	L	136 - 138 ✓	Strip	19.11	4.86
Cr	%		0.4000	0.1200	0.1210	0.1230	3	49040.21	69691.72	33.62	P	L	138 - 140 ✓	Strip	19.26	4.96
Mo	%		0.1500	0.0250	0.0250	0.0240	Tensile strength at ambient temperature									
Cu	%		0.4000	0.2000	0.2000	0.1970	Abbreviations : P:Pipe Body, U:Upset,T:Transverse, L:Longitudinal									
Sn	%			0.0100	0.0100	0.0100										
Al	%			0.0270	0.0270	0.0280										
Ti	%			0.0020	0.0020	0.0020										
V	%	0.0800		0.0022	0.0022	0.0023										
As	%			0.0050	0.0050	0.0040										
Ca	%			0.0005	0.0005	0.0006										
B	%			0.0003	0.0002	0.0003										
Nb	%			0.0019	0.0018	0.0019										
CE	%			0.3218	0.3244	0.3240										

Bend Test (As Per Specn.) : Ok ✓

Ultrasonic Test (ASTM E213-22) : Ok ✓

Type of reference indicator used :

Notch Orientation	Notch		Notch		Notch		Notch Type	Drill Hole	
	Depth	UOM	Length	UOM	Width	UOM		Dia	UOM
Longitudinal OD	0.4900	mm	50.0000	mm	0.4000	mm	N NOTCH		
Longitudinal ID	0.4900	mm	50.0000	mm	0.4000	mm	N NOTCH		

Hydrostatic Test (As Per Specn.) : Ok 2500 PSI ✓ Test Duration: 5 Second Minimum

Remarks :

ISMT LIMITED
Solutions You Can Trust

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		Invoice No. :	Date:
Remarks :			
1. NO WELD REPAIR PERFORMED.			
We hereby certify that the material has been manufactured, sampled, tested and inspected in accordance with Specification and Purchase order referred above and has been found to meet the requirements.			
AMOE A HEGGE JUNIOR SUPERVISOR Authorized signatory		Reviewed/witnessed R.V. Brosale 28/11/2022	
			