

GLOBAL SEAMLESS TUBES & PIPES PVT. LTD (INDIA)

GLOBAL SEAMLESS		MILL TEST CERTIFICATE										CERTIFICATE ACCORDING TO EN 10204 : 2.2		
PURCHASER NAME :		PO-43472 (PO-2E684)						TEST CERTIFICATE No.:		GSTP/2291/OSI/2023				
WORK ORDER No. :		GSTPL/NO/EXP/5624						TEST CERTIFICATE Date :		18.02.2023				
NAME OF PRODUCT :		CARBON STEEL SEAMLESS PIPES						INVOICE NO.:						
PROCESS OF PIPE/TUBE MANUFACTURE :		CARBON STEEL COLD DRAWN SEAMLESS PIPES						INVOICE Date :						
STEEL MANUFACTURED BY (MELT & POUR):		RASHTRIYA ISPAT NIGAM LIMITED, INDIA (FOR SL NO 5)												
STEEL MAKING METHOD :		BOP-LF/TRIUT-CCM-ROUND METHOD, Fully Killed						Approved QAP No.:		GSTPL/QC/0147/2020-21 Rev.02 DT-03.03.2021				
SPECIFICATION & GRADE :		ASTM A33 B / ASME SA 53-B / SA 106 B, EDD. - 2019 / 2021, NACE MR-0175 & MR-0103 EDD. - 2015 / 2012												
PO Sr. No.	GSTPL REF. HEAT NO.	SUPPLIER HEAT NO.	SIZE (Inch)				Quantity				General			
			OD	WT	X	LENGTH	NO.	MTL.	NET	WT.	End Condition	Coating		
3	BG0974	22D4336	1/2"	X	0.1470"	X	21.000'	1141	7303.54	23861.00	11.330	Plain End	Black Paint	
5	BG1056	22D04554	3/4"	X	0.1540"	X	21.000'	1706	10920.13	35826.00	23.040	Bevel End		
5	BG1049	22E02367	3/4"	X	0.1540"	X	21.000'	854	5466.45	17824.00	11.530	Bevel End		
6	BG0974	22D4336	1"	X	0.1330"	X	21.000'	1497	9582.30	31427.00	23.020	Bevel End		
7	BG0974	22D4336	1"	X	0.1790"	X	21.000'	1158	7412.36	24318.00	23.030	Bevel End		
CHEMICAL COMPOSITION (%)														
PO Sr. No.	HEAT NO.	ANALYSIS	%C	%Mn	%S	%P	%SI	%Cr	%Cu	%Mo	%Ni	%V		%CE
			Max	0.30	1.06	0.035	0.035	0.400	0.400	0.150	0.400	0.080	0.430	
3	22D4336	L1/A	0.184	0.720	0.010	0.009	0.130	0.032	0.001	0.002	0.004	0.001	0.320	
5	BG0974	P1/A	0.185	0.712	0.008	0.012	0.126	0.033	0.001	0.002	0.004	0.003	0.322	
5	22D04554	L2/A	0.168	0.830	0.004	0.018	0.110	0.010	0.001	0.001	0.001	0.001	0.274	
5	RG1056	P2/A	0.170	0.838	0.005	0.016	0.131	0.013	0.008	0.001	0.009	0.003	0.281	
5	22E02367	L3/A	0.165	0.840	0.007	0.018	0.120	0.010	0.001	0.001	0.001	0.001	0.274	
5	RG1049	P3/A	0.168	0.862	0.008	0.017	0.132	0.012	0.007	0.001	0.009	0.003	0.283	
6	22D4336	L4/A	0.194	0.720	0.010	0.009	0.130	0.032	0.001	0.002	0.004	0.001	0.320	
6	BG0974	P4/A	0.196	0.713	0.008	0.013	0.126	0.020	0.001	0.002	0.004	0.003	0.320	
7	BG0974	P5/A	0.198	0.713	0.008	0.015	0.126	0.028	0.001	0.002	0.005	0.004	0.324	
MECHANICAL PROPERTIES														
PO Sr. No.	HEAT NO.	REQUIRED	TENSILE STRENGTH (MPa)	YIELD STRENGTH (MPa)	ELONGATION (%)	HARDNESS (HR15N)	IMPACT TEST	FLATTENING Q TEST	FLAMING TEST	Bead Test at 90°				
			Min	Min	Min	Min	Min	Min	Min					
Q.L. = 20 mm & Pipe Tested On Full Section														
3	BG0974		444.95	295.68	33.12	71-72	N/A	N/A	N/A	Satisfactory				
5	BG1056		453.37	280.84	30.66	71-73	N/A	N/A	N/A	Satisfactory				
5	RG1049		455.10	285.58	47.78	73-75	N/A	N/A	N/A	Satisfactory				
6	BG0974		500.36	300.76	42.66	73-77	N/A	N/A	N/A	Satisfactory				
7	BG0974		477.85	317.50	48.18	73-75	N/A	N/A	N/A	Satisfactory				
NON-DESTRUCTIVE TEST														
PO Sr. No.	HEAT NO.	HYDRO-STATIC TEST as per SA420 (100%)	S.C.T. as Per ASTM B-308 (100%)	U.T. AS PER ASTM B-313 (100%)	IN SIDE	OUT SIDE	DIMENSION TOLERANCE as per Specification							
			Satisfactory	N/A	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory			
3	BG0974	2500 PSI, duration of 5 Sec. Satisfactory	Satisfactory	N/A	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory				
5	RG1056		Satisfactory	N/A	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory					
5	RG1049		Satisfactory	N/A	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory					
6	BG0974		Satisfactory	N/A	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory					
7	BG0974		Satisfactory	N/A	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory					
MARKING : GSTP/LOGO/CDE/ASTM A33 B/ASME SA53-B/LOGO/XXXX/ML NO./HYD. 2500 PSI/NDI/NACE MR0175 MR0103/MADE IN INDIA														
REMARKS : Legend: 1. L1/A= Lade Analysis One, P1/A= Product Analysis One, 2. L2/A= Lade Analysis Two, P2/A= Product Analysis Two, 3. L3/A= Lade Analysis Three, P3/A= Product Analysis Three, 4. L4/A= Lade Analysis Four, P4/A= Product Analysis Four, P5/A= Product Analysis Five, 5. N/A= Not Applicable.														
1. 100% Tubes Visual Surface Finish & Visual Dimensional Inspection Carried Out By "GSTPL" & 10% Qty. Witnessed by "BVIPL" Surveyor - Found Satisfactory.														
2. Mechanical Tests Carried Out By "GSTPL" & Witnessed by "BVIPL" Surveyor - Found Satisfactory.														
3. Chemical Tests Carried Out By "GSTPL" & Report Reviewed by "BVIPL" Surveyor - Found Satisfactory.														
4. 100% Hydrostatic Test Carried Out By "GSTPL" & 10% Qty. Witnessed by "BVIPL" Surveyor - Found Satisfactory.														
5. 100% Eddy Current Test Carried Out By "GSTPL" & Report Reviewed by "BVIPL" Surveyor - Found Satisfactory.														
6. Single Hard Stamp on Each Bundle Metal Tag as 'V' & Double Hard Stamp on 10% Witnessed Qty. Metal Bundle Tag as 'V' by "BVIPL" for Identification.														
We hereby certify that the material herein described has been manufactured, Sample tested & Inspected in accordance with above standard & specification & satisfy the requirement.														
Per, GLOBAL SEAMLESS TUBES & PIPES PVT. LTD. (INDIA)														
Sr. ENGINEER (QA/QC)		BUREAU VERITAS SURVEYOR (BVIPL)						MANAGER (QA/QC)						

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WE DO NOT ENCOURAGE ANY CHINESE SUBSTRATE