

## GLOBAL SEAMLESS TUBES & PIPES PVT. LTD (INDIA)



### MILL TEST CERTIFICATE

CERTIFICATE ACCORDING TO EN 10204 : 3.1

<b>PURCHASER NAME :</b>				<b>TEST CERTIFICATE No.:</b>		GSTP/2032/GFT/2022							
<b>PURCHASER ORDER No. :</b>		GFT22GS021X1		<b>TEST CERTIFICATE Date :</b>		22.12.2022							
<b>WORK ORDER No. :</b>		GSTPL/WO/EXP/5667		<b>INVOICE NO:</b>		GSTPLEXP2223128							
<b>NAME OF PRODUCT :</b>		CARBON STEEL SEAMLESS PIPES		<b>INVOICE Date :</b>		22.12.2022							
<b>PROCESS OF PIPE/TUBE MANUFACTURE :</b>		CARBON STEEL COLD DRAWN SEAMLESS PIPES											
<b>STEEL MANUFACTURED BY (MELT &amp; POUR):</b>		RASHTRIYA ISPAT NIGAM LIMITED, INDIA											
<b>STEEL MAKING METHOD :</b>		BOF-LF/IRUT-CCM-ROUND METHOD, Fully Killed		<b>Approved QAP No.:-</b>		----							
<b>SPECIFICATION &amp; GRADE :</b>		ASTM / ASME - A / SA 106 B, EDD, - 2019 / 2021, NACE MR-0175 & MR-0103											
PO Sr. No.	GSTPL REF. HEAT NO.	SUPPLIER HEAT NO.	SIZE (Inch)		Quantity				General				
			OD X WT X LENGTH		Nos.	Mtrs.	FEET	MT.	End Condition	Coating			
1	RG0958	22D03267	1" X 0.133" X 19'		752	4361.60	14288.00	10.920	Plain End	Black Paint			
CHEMICAL COMPOSITION (%)													
PO Sr. No.	HEAT NO.	REQUIRED	%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
1	22D03267	L1/A	0.190	0.490	0.008	0.017	0.159	0.018	0.001	0.001	0.001	0.001	0.275
	RG0958	P1/A	0.184	0.467	0.006	0.016	0.163	0.018	0.004	0.001	0.009	0.006	0.268
MECHANICAL PROPERTIES													
PO Sr. No.	HEAT NO	REQUIRED	TENSILE STRENGTH (MPa)	YIELD STRENGTH (MPa)	ELONGATION (%)	HARDNESS (HRBW)	IMPACT TEST	FLATTENING TEST	FLARING TEST	Bend Test at 90°			
		G.L. = 50 mm & Pipe Tested On Full Section											
1	RG0958	Max	-	-	-	99 HRBW (Max)	-	-	-	-	-	-	
		Min	415	240	30.00	-	-	-	-	-	-	-	
1	RG0958		443.69	307.77	53.92	67 - 68	N/A	N/A	N/A	Satisfactory			
NON-DESTRUCTIVE TEST													
PO Sr. No.	HEAT NO	HYDRO-STATIC TEST as per SA530 (100%)			SURFACE QUALITY			DIMENSION TOLERANCE as per Specification					
		E.C.T. as Per ASTM E-309 (100%)	U.T. AS PER ASTM E-213 (100%)	IN SIDE	OUT SIDE								
1	RG0958	2500 PSI, Satisfactory			Satisfactory			Satisfactory					
<b>Heat Treatment :</b>		Heat Treated Above 650°C (1200°F)											
<b>MARKING :</b>		GSTP/LOGO/SMLS/ASTM/ASME-A/SA-106-B /NACE MR-0175 MR-0103/SIZE...../H. NO...../HYD. 2500 PSI/MADE IN INDIA											
<b>REMARKS:</b>		Legends: 1. L1/A= Ladle Analysis One, P1/A= Product Analysis One, 2. N/A= Not Applicable.											
1.		100% Tubes Visual Surface Finish & Visual Dimensional Inspection Carried Out By "GSTPL" - Found Satisfactory.											
2.		Mechanical Tests Carried Out By "GSTPL" - Found Satisfactory.											
3.		Chemical Tests Carried Out By "GSTPL" - Found Satisfactory.											
4.		100% Hydrostatic Test Carried Out By "GSTPL" - Found Satisfactory.											
5.		100% Eddy Current Test Carried Out By "GSTPL" - Found Satisfactory.											
We hereby certify that the material herein described has been Manufacture Sample tested & Inspected in accordance with above standard & specification & satisfy the requirement.						For, GLOBAL SEAMLESS TUBES & PIPES PVT. LTD. (INDIA)							
 Sr. ENGINEER (QA/QC)						 MANAGER (QA/QC)							
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