

GLOBAL SEAMLESS TUBES & PIPES PVT. LTD (INDIA)

PURCHASER NAME :		TEST CERTIFICATE No.:		GSTP/1028/GFT/2022									
PURCHASER ORDER No. :		GFT21GS010		Date : 08.04.2021									
WORK ORDER No. :		GSTPL/WO/EXP/3089		Date : 25.04.2021									
NAME OF PRODUCT :		CARBON STEEL SEAMLESS PIPES		INVOICE NO: GSTPLEXP2122073									
PROCESS OF PIPE/TUBE MANUFACTURE :		CARBON STEEL COLD DRAWN SEAMLESS PIPES		INVOICE Date : 31.01.2022									
STEEL MANUFACTURED BY (MELT & POUR):		RASHTRIYA ISPAT NIGAM LIMITED, INDIA		Approved QAP No.:-									
STEEL MAKING METHOD :		BOF-LF/IRUT-CCM-ROUND METHOD, Fully Killed		ASTM / ASME A / SA 106 B, EDD. - 2019 / 2021, NACE MR-0175 & MR-0103									
SPECIFICATION & GRADE :		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 <td>Nos.</td> <td>Mtrs. MT. End Condition Coating </td>	Nos.	Mtrs. MT. End Condition Coating								
8	RG0489	21E04656	1" X 0.133" X 19'	1608	9326.40 23.340 Plain End Black Lacqured								
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
		Min	-	0.29	-	-	0.100	-	-	-	-	-	-
8	21E04656	L1 /A	0.188	0.680	0.007	0.014	0.250	0.008	0.001	0.001	0.001	0.001	0.303
	RG0489	P1 /A	0.165	0.690	0.005	0.016	0.240	0.010	0.004	0.001	0.013	0.004	0.284
MECHANICAL PROPERTIES													
PO Sr. No.	HEAT NO	REQUIRED	TENSILE STRENGTH (MPa)	YIELD STRENGTH (MPa)	ELONGATION (%)	HARDNESS (HRB)	IMPACT TEST	FLATTENING TEST	FLARING TEST	Bend Test at 90°			
			G.L. = 50 mm, Pipe Tested On Full Section										
		Max	-	-	-	99 HRB (Max)	-	-	-	-			
		Min	415	240	30.00	-	-	-	-	-			
8	RG0489		462.05	319.39	38.20	69 - 70	N/A	N/A	N/A	Satisfactory			
NON-DESTRUCTIVE TEST						SURFACE QUALITY		DIMENSION TOLERANCE as per Specification					
PO Sr. No.	HEAT NO	HYDRO-STATIC TEST as per SA530 (100%)	E.C.T. as Per ASTM E-309 (100%)	U.T. AS PER ASTM E-213 (100%)	IN SIDE	OUT SIDE							
8	RG0489	2500 PSI, Satisfactory	Satisfactory	N/A	Satisfactory	Satisfactory	Satisfactory						
Heat Treatment : Heat Treated Above 650°C (1200°F)													
MARKING : GSTP/LOGO/SMLS/ASTM/ASME-A/SA-106-B /NACE MR-0175 MR-0103/SIZE..../H. NO..../HYD. 2500 PSI/PO NO. GFT21GS010/MADE IN INDIA													
REMARKS: 1. Legends: L1/A= Ladle Analysis One, P1/A= Product Analysis One, 2. Legends: 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)							