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**MILL TEST CERTIFICATE**

CERTIFIED ACCORDING TO EN 10264-2:2004 / 3.1

MTC NO.: KDI/23/078  
 INVOICE NO: 01986  
 DATE: 23/05/2023

**ORIGINAL**

THE MATERIAL IS PRIME NEWLY PRODUCED ERW STANDARD BLACK, THREADED AND COUPLED ROUND PIPES WITH MILL LACQUER IN LENGTHS OF 21 FT WITH UNIFORM PIECE COUNT PER BUNDLE AND INDICATING CHEMICAL AND MECHANICAL PROPERTIES FOR EACH HEAT NUMBER. TENSILE AND YIELD ARE IN PSI UNITS ONLY

DESCRIPTION: - PRIME NEWLY PRODUCED ERW STANDARD BLACK, THREADED AND COUPLED ROUND PIPES WITH MILL LACQUER IN LENGTHS OF 21 FT WITH UNIFORM PIECE COUNT PER BUNDLE.  
 ALL OTHER DETAILS AS PER PROFORMA INVOICE NO EXP/P123-015  
 PRICE: CIF CY HOUSTON, TX USA BY CONTAINER SHIPMENT - DUTY PAID - SEC 232 & AD INCLUDED  
 DOCUMENTARY CREDIT (LC) NO: 64934283, DATE 07-03-23.  
 PURCHASE ORDER NUMBER: 40331

We certify that the ERW Pipes described below was Manufactured, Sampled, Tested & Inspected in accordance with the tolerance as per ASTM A53 GRADE A.

S.NO	TYPE	LONG CODE	COUNTRY OF MELT & POUR	SIZE (INCH)	CLASS	LENGTH (FEET)	BUNDLE	PCS/ BUNDLE	TOTAL PCS	END FINISH	HEAT NO.	HYDRO TEST (PSI)	NOT ECT. IN GRMS/M2	Zn COATING	BEND/ FLAT TEST	YST (27132 Min) PSI	UTS (37842 Min) PSI	EL. %	CHEMICAL ANALYSIS (%)									
																			C %	Mn %	P %	S %	*Cu %	*Ni %	*Cr %	*Mo %	*V %	
1	ERW	P928021	INDIA	1"	SCH-40	21'	24	60	1440	BTC	P0323E230589	700	OK	N/A	OK	44472	62222	36	0.125	0.444	0.007	0.005	0.008	0.010	0.012	0.001	0.001	
2	ERW	P947021	INDIA	2-1/2"	SCH-40	21'	11	18	198	BTC	PI423D230516	2500	OK	N/A	OK	39016	62802	36	0.140	0.540	0.021	0.017	0.005	0.020	0.017	0.001	0.001	
3	ERW	P951021	INDIA	3"	SCH-40	21'	31	14	434	BTC	P0823D230259	2200	OK	N/A	OK	46848	64978	38	0.152	0.488	0.011	0.009	0.004	0.012	0.020	0.001	0.001	
4	ERW	P953021	INDIA	4"	SCH-40	21'	35	10	350	BTC	PI023C221117	1900	OK	N/A	OK	46558	55580	42	0.044	0.372	0.016	0.011	0.040	0.038	0.021	0.005	0.000	
5	ERW	P953021	INDIA	4"	SCH-40	21'	28	10	280	BTC	PI023C221324	1900	OK	N/A	OK	50909	58306	26	0.055	0.529	0.010	0.006	0.004	0.012	0.016	0.000	0.001	
							129		2702																			

**WE CERTIFY THAT PIPE AND COATINGS ARE FREE OF BOTH MERCURY AND LEAD**

It is further certified that the above mentioned pipes confirm to the dimensional and weight tolerance of the specification. The pipes have been found conforming to the Bend Test, Flattening Test, Zinc Coating Test & Uniformity Test (wherever Applicable). No untempered martensite observed and uniformly distributed ferrite pearlite structure observed. All pipes have been supplied in length as specified above with length tolerance -0/+1". All pipes hydrostatically tested as per above mention test pressure or specification for minimum 5 second holding time. The pipes are 100% Eddy Current Tested according to the specification.

Abbreviation: GP-E=Galvanized Plain End, GBE=Galvanized Bevelled End, GTC=Galvanized Threaded And Coupled, GRCE=Galvanized Roll Grooved End, GPE=Black Plain End, GBE=Black Bevelled End, BTC=Black Threaded And Coupled, BGC=Black Roll Grooved End, YSt= Yield Strength, UTS= Ultimate Tensile Strength, EL= Elongation

