



T S I METAL INDUSTRIES LLC

P.O.BOX: 31165, ICAD-II, ABU DHABI, U.A.E.
MANUFACTURER TEST CERTIFICATE



1990 POST OAK BLVD.SUITE 2100
HOUSTON,TEXAS 77056

DATE : 21-SEP-2023
MTC NO. : TSI/EXP/23-0884
EXP NO. : 23-192
INV NO. : TSIA/EX/23/0181

P.O. NO : 25.827 LOT-01

WE CERTIFY THAT THE MATERIAL DESCRIBED BELOW FULLY CONFORMS TO ASTM A53. THE CHEMICAL COMPOSITION & MECHANICAL TESTING CONFORMS TO ASTM A751 & ASTM A370 RESPECTIVELY. PLEASE REFER TO ASTM A53 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

MATERIAL DESCRIPTION - PRIME NEWLY PRODUCED ERW STEEL PIPE CONFORMING TO ASTM A53-20 GRADE-A

S.No.	Item	Outside Diameter	Thickness	Length	Weight	Quantity	Surface Finish	Ends	Batch No	Heat No	Heat Treatment - 540°C Min	Eddy Current Test	Flattening/Bend Test (At 0° and 90°)	Hydro Test Pressure	Avg. Zinc Coating
		Inch	Inch	Feet	Lbs/FT	Pcs							33%/66%/Full/8"D	PSI	Gm/m ²
1	1 1/2" X SCH-80	1.900	0.200	21	3.63	396	Black	Plain End	2041/230701	A3501974	NA	OK	OK	1800	NA

Chemical Composition / Analysis (MAX)

Heat No	C%	Mn%	P%	S%	Cr%	Cu%	Mo%	NI%	V%	(Cu+Ni+Cr+Mo+V)%	Mechanical Properties (MIN)			
Spec. Requirement	0.250	0.950	0.0500	0.0450	0.4000	0.4000	0.1500	0.4000	0.0800	1.0000	Specimen	YS-MPa	UTS-MPa	% EL
A3501974	0.030	0.160	0.0150	0.0100	0.0140	0.0040	0.0020	0.0110	0.0010	0.0320	L/B	286	379	35

IT IS FURTHER CERTIFIED THAT THE ABOVE MATERIAL CONFORMS TO THE DIMENSIONAL AND WEIGHT TOLERANCE OF THE SPECIFICATION ASTM A53.

TOLERANCE : FOR ≤48.3 OD ±0.40MM & >48.3MM OD ±1%, THICK. -12.5%, WEIGHT ± 10%. WORKMANSHIP : CONFORMS TO ASTM A53 & P.O., BEVEL ANGLE: 30°- 35° WHEREVER APPLICABLE

COUNTRY OF MELT & POUR : TATA & JSW INDIA

ABBREVIATION: YS: Yield Strength; UTS: Ultimate Tensile Strength; EL: Elongation; GL: Gauge Length; L: Longitudinal; T: Transverse; B: Body Tensile; W: Weld Tensile



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NARENDRA KUMAR
MANAGER (QUALITY)