



ELECTROSTEEL CASTINGS LIMITED

30, B. T. Road, Khardah, P.O: Sukchar, Kolkata 700 115
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CIN: L27310OR1955PLC000310
www.electrosteel.com

MILL TEST CERTIFICATE

RO NO: 2040007665_7500014847

Dated: 07.02.2026

Buyer : Electrosteel USA, LLC
421 Telfair Road,
Savannah, GA-31415
USA

Invoice no & date : 7500014847 Dated: 07.02.2026

Materials

- 1) Centrifugally cast (spun) ductile iron pipes, 6, 10, 16 & 18 inch class 53, socket & spigot, push-in-joint conforming to ANSI/AWWA C151/A21.51-02, internally slag cement mortar lined and black bituminous seal coated (NSF approved) and externally metallic zinc coated.
- 2) Centrifugally cast (spun) ductile iron pipes, 10 inch class 350 PSI, socket & spigot, push-in-joint conforming to ANSI/AWWA C151/A21.51-02, internally slag cement mortar lined and externally metallic zinc and finally black bitumen coated.
- 3) Centrifugally cast (spun) ductile iron pipes, 12 inch class 53, socket & spigot pipes, push-in-joint conforming to ANSI/AWWA C151/A21.51-02, internally ceramic epoxy coated (green in colour) of minimum 40 mils (1016 micron) thickness and externally metallic zinc coated.
- 4) Centrifugally cast (spun) ductile iron pipes, 24 inch class 250 PSI, socket & spigot, push-in-joint conforming to ANSI/AWWA C151/A21.51-02, internally slag cement mortar lined and black bituminous seal coat (NSF approved) externally metallic zinc and finally black bitumen coated.
- 5) SBR NSF push on gaskets.

Material despatched : **Details as given in "ANNEXURE".**

Physical appearance : Pipes were physically checked and found satisfactory.

Surface : Inside & outside surface of pipes were visually examined and found satisfactory.

Straightness : Straightness of pipes were checked and found within permissible limit.

Ovality : Ovality of socket & spigot pipes were checked and found within the tolerance.

Dimensions : Dimensions of pipes were measured, values observed and found to conform to the specification ANSI/AWWAC151/A21.51-02.

Hydrostatic test : 100% pipes have been hydrostatically tested at a minimum pressure of 500 psi and found ok. No leakage, sweating and defects were observed.

Mechanical test : Sample from pipes were drawn during production and tested for mechanical properties (Tensile strength, % Elongation and yield strength, Impact strength). Results were obtained and found to comply with the specification.


KISHALAY DAS





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- Internal lining** : Pipes were internally slag cement mortar lined (single cml line for size 6 inch and double cml line for size 8 inch and above) in accordance with ANSI/AWWA C104/A21.4-03(Made 182)
- Internal coating**
- a) Inside black bituminous seal coat with a minimum thickness of 50 microns. (Material no. 1 & 4)
 - b) Inside green ceramic epoxy coated with a minimum thickness of 40 mils(1016 microns).(Material no. 3)
- i) Holiday test : No electrical puncture observed during non-porosity (Holiday) test on ceramic epoxy coating by using rubber test electrode of 4.2 KV on sample pipes and results were found satisfactory.
- ii) Adhesion test : Adhesion test for ceramic epoxy coating determined by using Pull of Tester on sample pipes, the results obtained more than 8.0 MPa and found satisfactory.
- External coating** : Visual inspection was carried out externally metallic zinc coated. Zinc - Metallic Zinc deposition was found to contain over 200 gm/m².

Markings

Materials No. 1 & 3

ECL logo, DI, DN,
weight (Kgs), Class
Year of manufacture

Materials No. 2

ECL logo, SBR, DI, DN,
Class, weight (Kgs),
Electrosteel USA ZINC
PUSH TITE, FM APPROVED
UL listed, 40 KS,
Spigot insertion mark
Year of manufacture

Materials No. 4

ECL logo, SBR, DI, DN,
Class, weight (Kgs),
Electrosteel USA ZINC
PUSH TITE , NSF/ANSI 61,
<MH61191>, C UL Water quality US
UL listed, 40 KS,
Spigot insertion mark
Year of manufacture


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For Electrosteel Castings Ltd.

Quality Assurance Dept.

INVOICE NUMBER : 7500014847 / .

ANNEXURE

Details Of DI US PIPE :

SL No.	Standard	Size	Class	Qty(mtr)	Type Of Joint
1		006	T053	2376.000	Push-In
2		010	P350	504.000	Push-In
3		010	T053	36.000	Push-In
4		012	T053	18.000	Push-In
5		016	T053	36.000	Push-In
6		018	T053	54.000	Push-In
7		024	P250	1764.000	Push-In

Details Of RUBBER GASKETS :

SL No.	Item Description	Qty(pcs)
1	GASKET DI-PUSH ON-SBR-NSF-UL-CV,NB 6 IN	139.000
2	GASKET DI-PUSH ON-SBR-NSF-UL-CV,NB 10 IN	32.000
3	GASKET DI-PUSH ON-SBR-NSF-UL-CV,NB 12 IN	1.000
4	GASKET DI-PUSH ON-SBR-NSF-UL-CV,NB 18 IN	3.000


(KISHALAY DAS)



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