Evonith Steel

nectra

Ductile Iron Pipe

Engineered for Impact

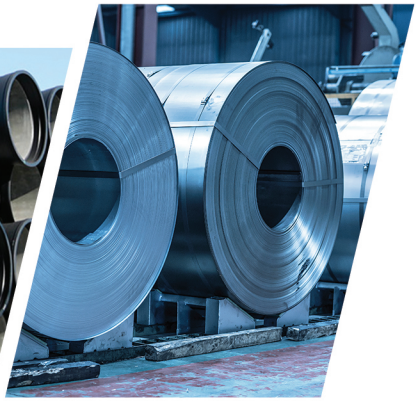
About the company

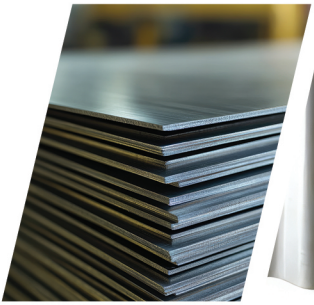
Evonith Steel is an integrated steelmaker, centrally located state of the art unit in Wardha, Maharashtra. With a robust iron-making of 1.40 MTPA, we are more than just a steel producer — we are here for our people, here for impact, and here for excellence.

We specialize in the production of:

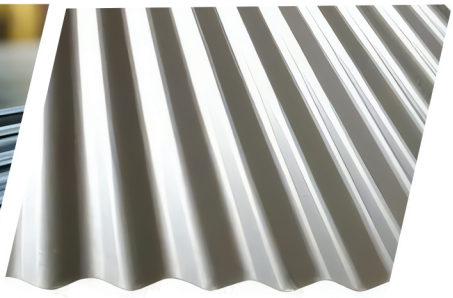
Ductile Iron Pipe

Hot Rolled Coils/Sheets





Cold Rolled Coil/Sheets



Galvanized Coil/Sheets and
Galvanized Corrugated sheets

At Evonith Steel, our DI Pipes carry more than just water — they carry our enduring promise of care, commitment, and excellence. Engineered for durability and designed to serve, our pipes are a testament to our mission of building a stronger, safer, and more sustainable India.

Our Values

Respect for all
We listen. We care.

Well-being for all
We assure. We ensure.

Excellence for all
We promise. We deliver.

The EvonithSteel Promise

EvonithSteel is the brand that cares. Our promise is a steadfast commitment to protecting and caring for our employees, the environment, and all stakeholders we collaborate with. Our promise is a better today through persistently striving for product and process excellence.

You can always count on us to:

- → Creating a safe and secure environment for everyone
- → Promoting sustainability in the community
- → Building strong partnerships with stakeholders

Why Nectra?

The name Nectra comes from "Nectar," symbolizing purity, life, and continuous flow. Just as nectar sustains life, water is the lifeline of communities and cities. At Evonith Steel, we believe carrying this lifeline responsibly means protecting both people and the environment—through durable, reliable pipes that minimize losses and support a sustainable future.

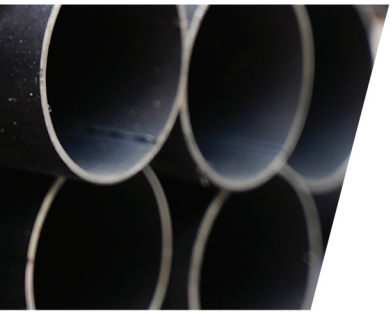
The suffix "tra" in Nectra adds a powerful edge. Inspired by words like Extra and Ultra, it signifies strength beyond the expected, performance beyond the standard, and durability beyond limits. It reflects our commitment to go the extra mile in engineering, quality control, and innovation.

Together, Nectra represents the perfect balance of purity and power where life-giving flow meets ultra-strong ductile iron technology. Built for today's needs and tomorrow's growth, Nectra DI Pipes are not just conduits of water; they are enablers of sustainable development and resilient infrastructure.

Mechanical Properties

Properties	Ductile Iron Pipe
Tensile Strength	Min. 420 MPa
Yield Strength	3,000 kg/cm2 or 300 MPa
Minimum Elongation	For Pipe - 10% up to DN 1000. For Fittings 5%
Modulus of Elasticity	162,000 - 170,000 MPa
Hardness	Max. 230 BHN
Density	7,050 kg/m3
Co-efficient or Thermal	11.5 x 10-6 per Degree Celsius
Hazen William's C Value	~ 140
Thermal Conductivity	36 Wiper Degree Celsius m-k (for temperature range 20-100°C)
Electrical Resistivity	2.24 x 10-5-3.56 x 10-5 Ohm/cm (for temperature range 20 - 300°C)
Compressive Strength	550 MPa (minimum)
Torsional Strength	3,800 kg/cm2 or 380 MPa
Poisson's Ratio	0.275

*All the mechanical properties shown are indicative and represent typical product characteristics. Actual values shall be confirmed through testing as per applicable standards.



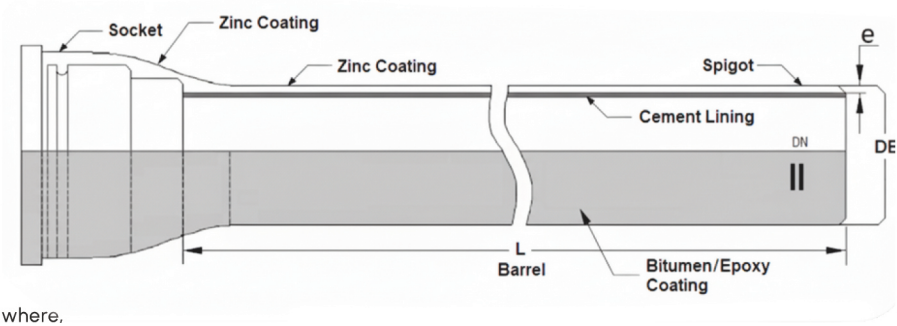
Technical Properties and specials

Product	Ductile Iron pipe suitable for Push-on-Joint, Flanged Joint, Restrained Joint as per IS 8329; ISO 2531; BSEN 545; BSEN 598; ISO 7186; ISO 10804
Size Range	DN 80 mm to DN 1200 mm
Class of DI Pipes	Class K-7 , K-9 ,C20, C25, C30, C40, C50, C64, C100 & PP Class
Standard Length (in Meters)	5.5 & 6 m
Internal Linings	→ Cement Mortar Lining of OPC / BFSC / SRC / HAC → Cement Mortar Lining with Epoxy Seal Coat → Cement Mortar Lining with Bituminous Seal Coat
External Coating - 1	→ Zinc Coating (130 gm/m2 or 200 gm/m2 or 400 gm/m2) Alloy of Zinc & Aluminium (ZnAl) with minimum mass of 400 → gm/m2
External Coating - 2	→ Bitumen Coating → Blue Epoxy → Red Epoxy
Outside OnSite Protection	→ Polyethylene Sleeving as per customer requirement
Coating of Joint Area	→ Bitumen / Epoxy as per customer requirement

*All product specifications will be as per standard design by regulatory authorities and subjected to customer requirements.

Classification & Dimension pressure chart and tolerance

As per IS 8329:2000, DI Socket and Spigot Dimension Chart for K7 and K9 Grades with Allowable Tolerance Limits for all diameters:



where,

DN= Nominal Diameter, DE= External Diameter, L= Length of the pipe, e= Barrel Wall Thickness

DN (mm)	DE (mm)	K7 Wall Thickness (mm)	K9 Wall Thickness (mm)	Tolerance on DE (mm)
80	98	5.00	6.00	1.0 / -2.2
100	118	5.00	6.00	1.0 / -2.8
125	144	5.00	6.00	1.0 / -2.9
150	170	5.00	6.00	1.0 / -2.9
200	222	5.00	6.30	1.0 / -3.0
250	274	5.30	6.80	1.0 / -3.1
300	326	5.60	7.20	1.0 / -3.3
350	378	6.00	7.70	1.0 / -3.4
400	429	6.30	8.10	1.0 / -3.5
450	480	6.60	8.60	1.0 / -3.6
500	532	7.00	9.00	1.0 / -3.8

DN (mm)	DE (mm)	K7 Wall Thickness (mm	K9 Wall Thickness (mm)	Tolerance on DE (mm)
600	635	7.70	9.90	1.0 / -2.2
700	738	9.00	10.80	1.0 / -4.3
750	790	10.40	11.30	1.0 / -4.4
800	842	11.20	11.70	1.0 / -4.5
900	945	12.00	12.60	1.0 /-4.8
1000	1048	12.00	13.50	1.0 / -5.0
1100	1152		14.40	1.0 / -6.0
1200	1255		15.30	1.0 / -6.2

*All dimensions are in mm

Source: Bureau of Indian Standards IS 8329 (2000) Table 2 Dimensions of Sockets and Spigot Pipes, Classes K7, K8, K9 and K10 (Clauses 3.21, 12.2, 13.3 and 15.3.2)

Contact Us:

Corporate Office: Evonith Value Steel Limited - Office No. 706 to 710, Balarama Building, Bandra Kurla Complex Road, E Block, BKC, Bandra East, Mumbai, 400051

Evonith Steel Plant: Evonith Steel, Wardha Steel Complex, Bhugaon Link Road, Wardha 442001 **Maharashtra, India**

For enquiries please contact:

Email ID:
dipipesales@evonith.com

Phone number:
+91 8655857603

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