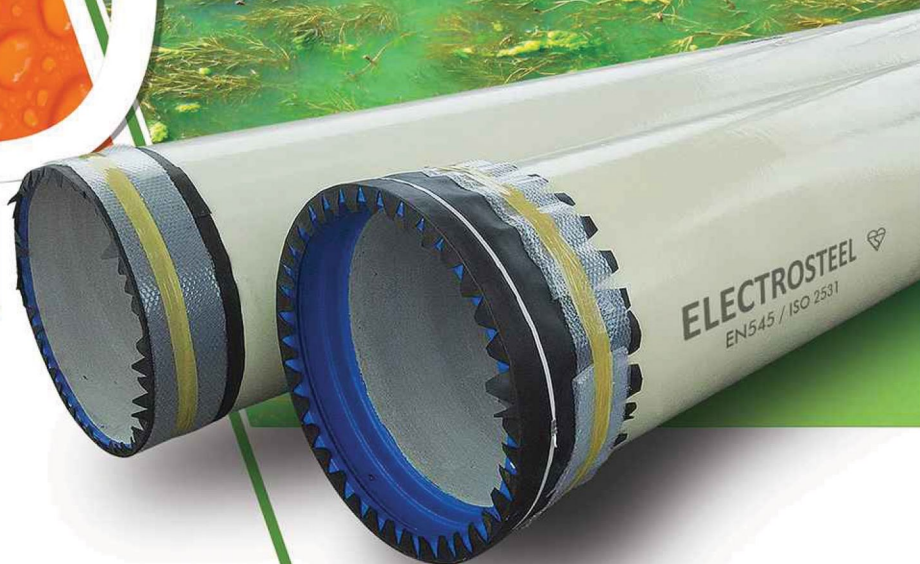


ELECTRO-PUC

ductile
iron pipe with

PUC

coating



Polyurethane Coating on Ductile Iron Pipes

External polyurethane coating (ELECTRO-PUC) applied on Ductile Iron pipes is one of the most durable pipe protection system offered by Electrosteel. It provides a thick and chemically inert barrier coating with exceptionally high abrasion and chemical resistance, ideally suited for water and wastewater applications in aggressive soil condition. This pipe in conjugation with FBE (Fusion bonded Epoxy) coated Ductile Iron fittings is available in the size range of 80-1200 mm. It is one of the best solution for highly corrosive external soil environment. It is also the best protection in saline soil, sea coast area, ground with chemical contamination, refuse sites, farmyard waste etc. It has a long-term performance history in water and sewage application. The coating is applied and tested in accordance with EN 15189.



Advantages

- Can be readily laid as it is supplied from factory
- High abrasion resistance
- Better resistance to external soil corrosion in aggressive soil
- More resistance to external chemical (acid, alkali & organic) attack
- Durable and provides high impact resistance
- Higher scratch resistance
- Good adherence with the pipe surface offering more durable coating
- Does not peel off in impact
- Resistant to coating damage
- Better looks and aesthetics
- Better service life
- Insulate DI Pipes against the effect of Stray Current

Coating Thickness

The standard Polyurethane coating thickness is minimum 700 micron as per EN15189.

Field of application for Polyurethane coating

Soil Corrosivity	Typical Ground Conditions	ELECTRO-PUC Protection System
Highly Aggressive	Natural soils with resistivity below 500 ohm.cm without water table Natural soils with resistivity below 1500 ohm.cm with seasonal water table or permanent water logging. Natural soils containing coal, ironstone or shale with seasonal water table or permanent water logging. Natural soils with pH <5 Natural soils with pH range 5 <pH <6 with seasonal water table or permanent water logging. Made up ground with light chemical contamination e.g. refuse sites, farmyard waste. Presence of Stray electrical currents e.g. close proximity to cathodically protected pipeline and DC current systems.	Pipes with Polyurethane coating as per EN 15189 of minimum 700 micron thickness and Fittings with Fusion Bonded Epoxy (FBE) coating as per EN 14901
Special conditions with high aggressivity	Made up ground containing clinker, coal, flints and other materials likely to cause mechanical damage with seasonal water table or permanent water logging. Made up ground with heavy chemical or acid contamination, e.g. disused gas plants, industrial sites, mine, chemical plants dumping ground etc. Tidal water e.g. estuaries, shorelines containing highly saline atmosphere.	Pipes with Polyurethane coating of minimum 1000 micron thickness and Fittings with Fusion Bonded Epoxy (FBE) coating as per EN 14901

Note : The above table is only for guidance.


Compatible fittings with PU coated pipes

All fittings are coated with Fusion bonded epoxy coating are compliant with the European standard EN:14901 "Epoxy Coatings for Ductile Iron fittings and accessories". The blue epoxy coating has an average thickness of at least 300 μm . Ideally suited for fittings in water and wastewater applications.

Note:- Any special thickness requirement higher or lower than given above can be provided as per request.



 **ELECTROSTEEL**
BSEN 545 / ISO 2531

ELECTRO-PUC pipes are used extensively in
Middle East, Africa & Europe. 




DVGW-Baumusterprüfzertifikat
DVGW type examination certificate

DW-7705BP0329
Registrierungsnummer
Registration Number

Anwendungsbereich <small>Field of application</small>	Produkte der Wasserversorgung <small>products of water supply</small>
Zertifikatinhaber <small>owner of certificate</small>	Electrosteel Castings Limited G K Tower, 19 Camac Street, IND-700017 Calcutta
Vertreiber <small>distributor</small>	Electrosteel Castings Limited G K Tower, 19 Camac Street, IND-700017 Calcutta
Produktart <small>product category</small>	Formstücke aus duk. Gusseisen: Formstücke aus duktilem Gusseisen (7705)
Produktbezeichnung <small>product description</small>	Formstücke aus duktilem Gusseisen für die Trinkwasserversorgung
Modell <small>model</small>	Gusseisenformstücke "ELECTROSTEEL"
Prüfberichte <small>test reports</small>	Kontrollprüfung Labor: 11-7415-17-02 vom 07.04.2017 (MPG) Mechanikprüfung: 11741511 vom 12.02.2012 (MPG) UBA-Leitlinie: K-245519-14-Ko vom 07.07.2014 (WHY) Mikrobiologische Prüfung: W-247649e-14-SI vom 29.08.2014 (WHY)
Prüfgrundlagen <small>test basis</small>	DVGW GW 337-P (01.09.2010) DIN EN 545 (01.09.2011) DVGW W 347 (01.04.2006) DVGW W 348 (01.09.2004) UBA BESCH-LL (16.03.2016) DVGW W 270 (01.11.2007)
Ablaufdatum / AZ <small>date of expiry / file no.</small>	27.06.2023 / 18-0219-WNV

20.07.2018 GI A-1/2
Calum. Bearbeiter: Bist. Leiter der Zertifizierungsstelle
date issued by: chief/ head of certification body


DVGW CERT GmbH ist von der DAKKS nach DIN EN ISO/IEC 17065:2013 akkreditiert. Stelle für die Zertifizierung von Produkten der Energie- und Wasserversorgung.

DVGW CERT GmbH is an accredited body by DAKKS according to DIN EN ISO/IEC 17065:2013 for certification of products for energy and water supply industry.



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DVGW type examination certificate
DVGW-Baumusterprüfzertifikat


DW-7705BP0329
Registrierungsnummer
Registration Number

Field of Application <small>Anwendungsbereich</small>	products of water supply <small>Produkte der Wasserversorgung</small>
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Distributor <small>Vertreiber</small>	Electrosteel Castings Limited G K Tower, 19 Camac Street, IND-700017 Calcutta
Product Category <small>Produktart</small>	ductile iron pipe fittings: Ductile iron fittings (7705)
Product Description <small>Produktbezeichnung</small>	ductile iron fittings for the drinking water supply
Model <small>Modell</small>	Gusseisenformstücke "ELECTROSTEEL"
Test Reports <small>Prüfberichte</small>	laboratory control test: 11-7415-17-02 from 07.04.2017 (MPG) mechanical test: 11741511 from 12.02.2012 (MPG) UBA-Guideline: K-245519-14-Ko from 07.07.2014 (WHY) hygienic testing: W-247649e-14-SI from 29.08.2014 (WHY)
Test Basis <small>Prüfgrundlagen</small>	DVGW GW 337-P (01.09.2010) DIN EN 545 (01.09.2011) DVGW W 347 (01.04.2006) DVGW W 348 (01.09.2004) UBA BESCH-LL (16.03.2016) DVGW W 270 (01.11.2007)
Date of Expiry / File No. <small>Ablaufdatum / Aktenzeichen</small>	27.06.2023 / 18-0219-WNV

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Date, issued by: Chief/ Head of Certification Body
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