

3PE anti-corrosion coating steel pipe

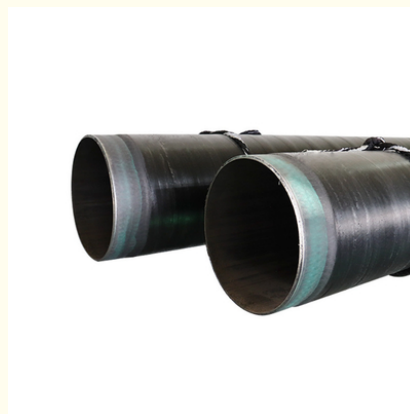
Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: KASUGAI
- Certification: DIN 30670 / ISO 21809 / API
- Model Number: 3PE steel pipe
- Minimum Order Quantity: 5 t
- Price: USD
- Packaging Details: Seaworthy Packing
- Delivery Time: 45 55days depends on quantity
- Payment Terms: L/C,T/T,D/P
- Supply Ability: 300 t per month



Product Specification



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Product Description

3PE anti-corrosion coating steel pipe is widely recognized as one of the most reliable and effective pipeline solutions for oil, gas, water, and other fluid transportation. Its robust **three-layer polyethylene (3PE) coating system** provides exceptional resistance against corrosion, chemicals, and mechanical damage, making it an ideal choice for both underground and underwater pipeline projects.

Product Features & Structure

The **3PE coating system** consists of three distinct layers:

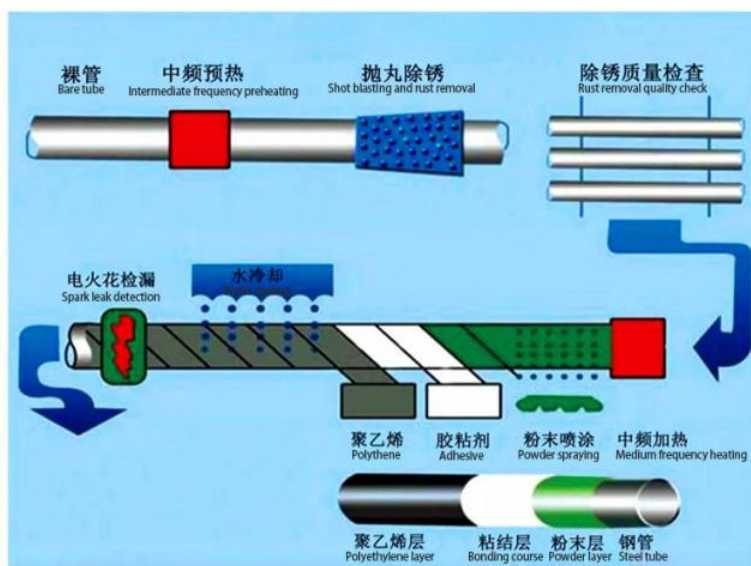
Fusion Bonded Epoxy (FBE) – The innermost layer that offers excellent corrosion resistance and strong adhesion to the steel pipe.

Adhesive Layer – A copolymer adhesive that binds the epoxy and polyethylene together.

Polyethylene (PE) Outer Layer – The external layer that provides mechanical protection from impact, abrasion, and external forces.

This multi-layered design ensures that the steel pipe remains protected even in harsh environmental conditions.

3PE Anti-corrosion Steel Pipe Process Flow



Advantages of 3PE Anti-Corrosion Coating Steel Pipe

Superior Corrosion Resistance: Prevents pipe degradation due to moisture, chemicals, and soil conditions.

Excellent Mechanical Protection: High resistance to impact and abrasion during transportation and installation.

Long Service Life: Typically exceeds 30–50 years, reducing maintenance and replacement costs.

Wide Temperature Range: Suitable for both high and low temperature environments (-30°C to 80°C).

Environmentally Friendly: Non-toxic materials, safe for potable water pipelines

Technical Specifications

Parameter	Specification
Coating Type	3PE (Fusion Bonded Epoxy + Adhesive + PE)
Pipe Material	20# Q235B L245 L290 L360
Outer Diameter Range	89 mm – 2020 mm
Coating Thickness	1.8 mm – 3.7 mm (customizable)
Operating Temperature	-30°C to 80°C
Application Standard	DIN 30670 / ISO 21809 / API
Application Areas	Oil & gas pipelines, water supply, buried pipelines

Frequently Asked Questions (FAQ)

Q1: What is the lifespan of 3PE anti-corrosion coating steel pipe?

A: Under proper installation and service conditions, the lifespan can exceed 30 to 50 years.

Q2: Can 3PE coated pipes be used for drinking water systems?

A: Yes. The materials used are non-toxic and safe for potable water applications.

Q3: How does 3PE compare to FBE or 2PE coatings?

A: 3PE provides better mechanical strength and longer service life than single-layer FBE or 2PE, especially in harsh environments.

Q4: Are custom sizes and coatings available?

A: Yes, we offer customized pipe sizes, steel grades, and coating thicknesses based on project requirements.

Kasugai Group manufacture pipe fittings, steel pipes and flanges products more than 100 years, we can do 3PE coating for seamless steel pipe, welded steel pipe, stainless steel pipe, carbon steel pipe, alloy steel pipe, nickel alloy pipes.

If you want to know more about our piping products, please email us zhangying@kasugai-group.co.jp



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