

Anti-corrosion Pipeline

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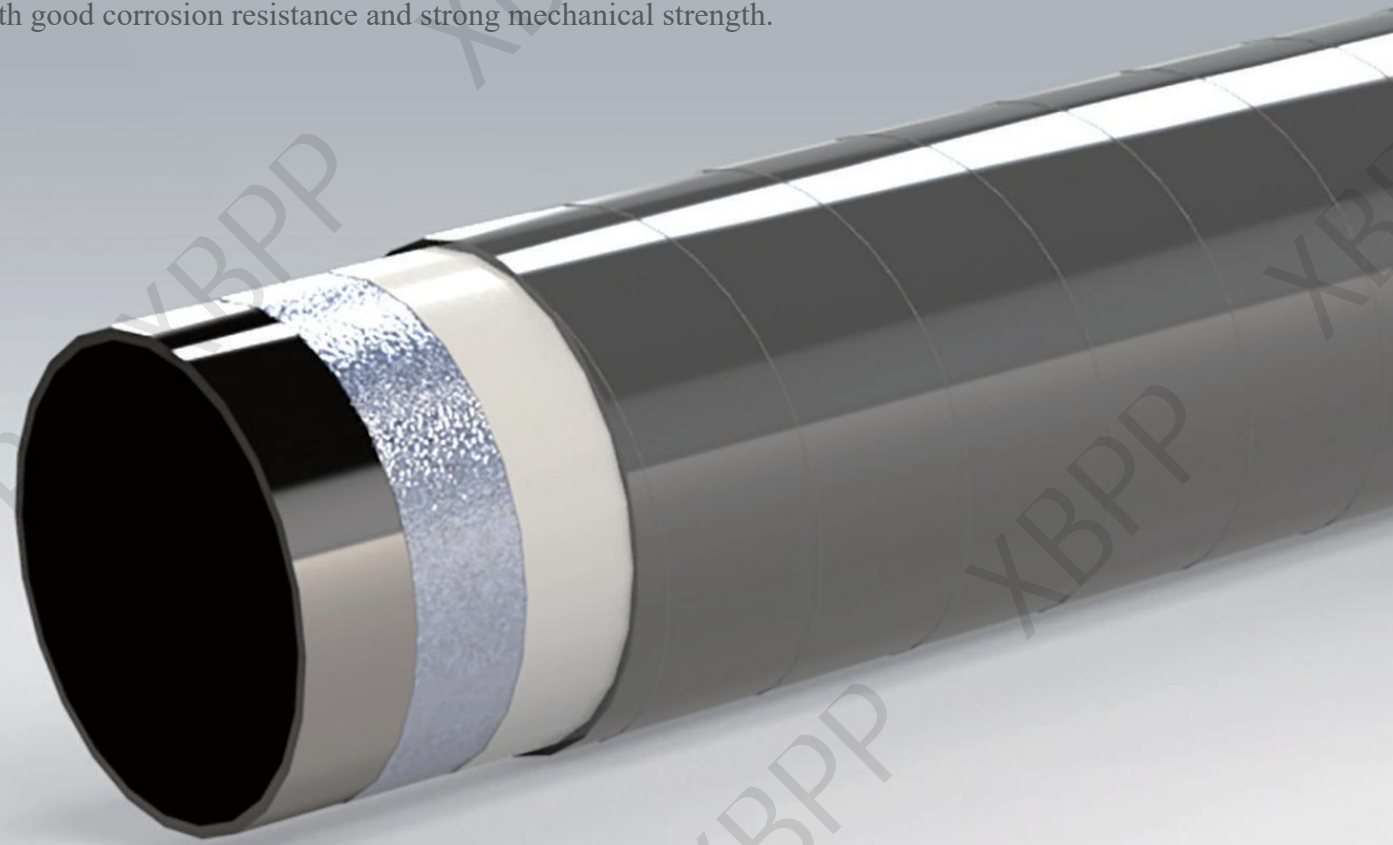
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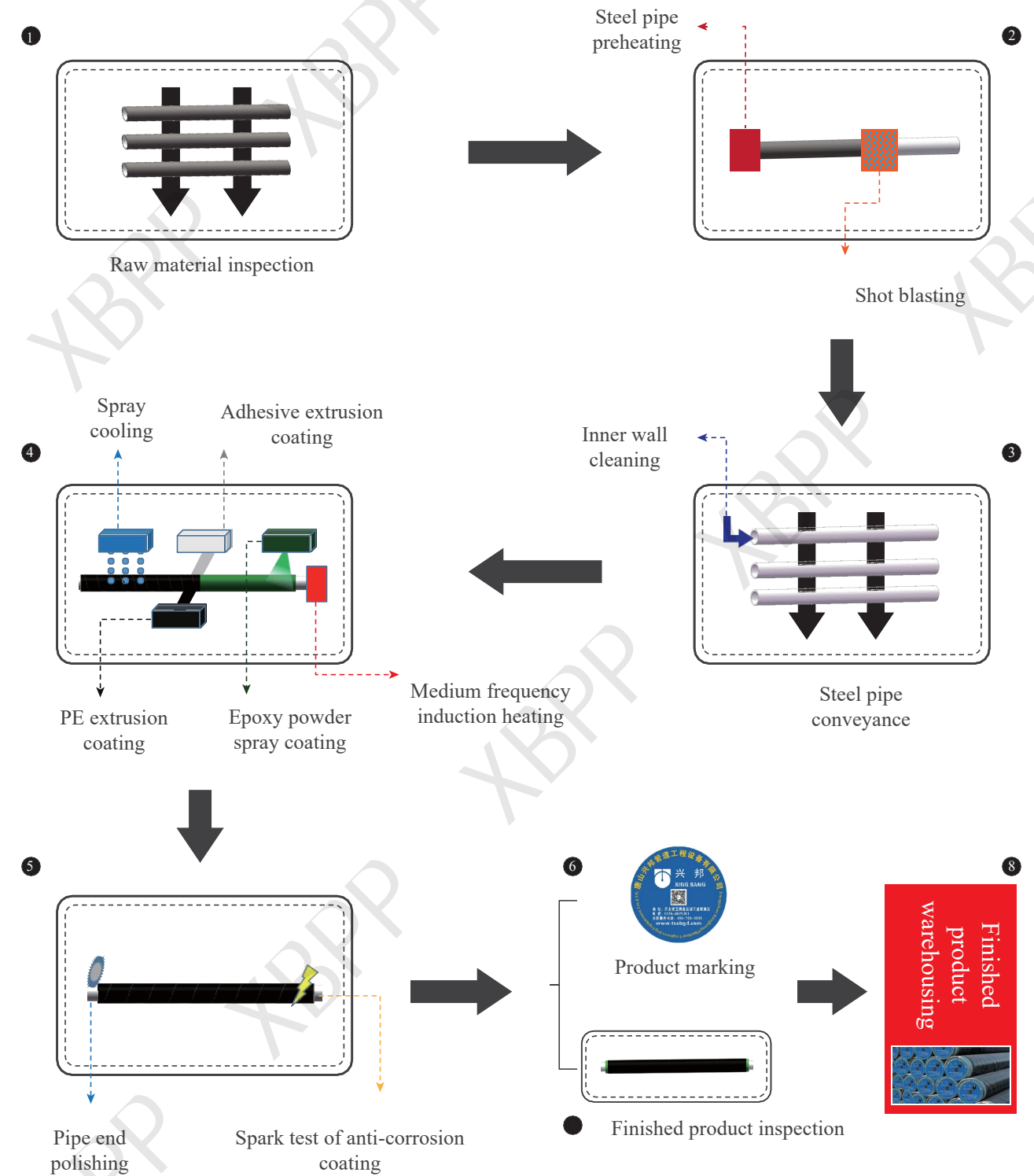
Product Introduction

3PE/2PE anti-corrosion coating

3PE/2PE anti-corrosion coating is one of the world's major technical systems for external anti-corrosion of buried pipelines. PE anti-corrosion buried pipelines are used for delivery of mediums such as water, petroleum and natural gas at an operating temperature of 50-70°C, with good corrosion resistance and strong mechanical strength.



Process flowchart



Structure of 3PE Anti-corrosion Coating

Anti-corrosion structure

The first layer is made of fusion bonded epoxy (FBE) $>120\mu\text{m}$, the second layer is made of adhesive (AD) $170-250\mu\text{m}$, and the third layer is made of polyethylene (PE). The thickness of the anti-corrosion coating is 1.8-3.7mm. Three materials are integrated and securely combined with the steel pipe to form an excellent anti-corrosion coating.

Pipe diameter

$\Phi 32\text{mm}-\Phi 2020\text{mm}$

Executive standard

GB/T23257-2017 Polyethylene coating for buried steel pipeline

Grade and thickness of anti-corrosion coating

No.	Nominal diameter of steel pipe DN(mm)	Epoxy layer (μm)	Adhesive layer (μm)	thickness of anti-corrosion coating (mm)	
				Ordinary type	Enhanced type
1	$\text{DN}\leq 100$	≥ 120	≥ 170	1.8	2.5
2	$100 < \text{DN}\leq 250$	≥ 120	≥ 170	2.0	2.7
3	$250 < \text{DN} < 500$	≥ 120	≥ 170	2.2	2.9
4	$500\leq \text{DN} < 800$	≥ 120	≥ 170	2.5	3.2
5	$\text{DN}\geq 800$	≥ 120	≥ 170	3.0	3.7

Note: Not applicable to double PE anti-corrosion coating

Single/Double-Layer Fusion Bonded Epoxy (FBE/2FBE) Coating for Anti-corrosion of Steel Pipes

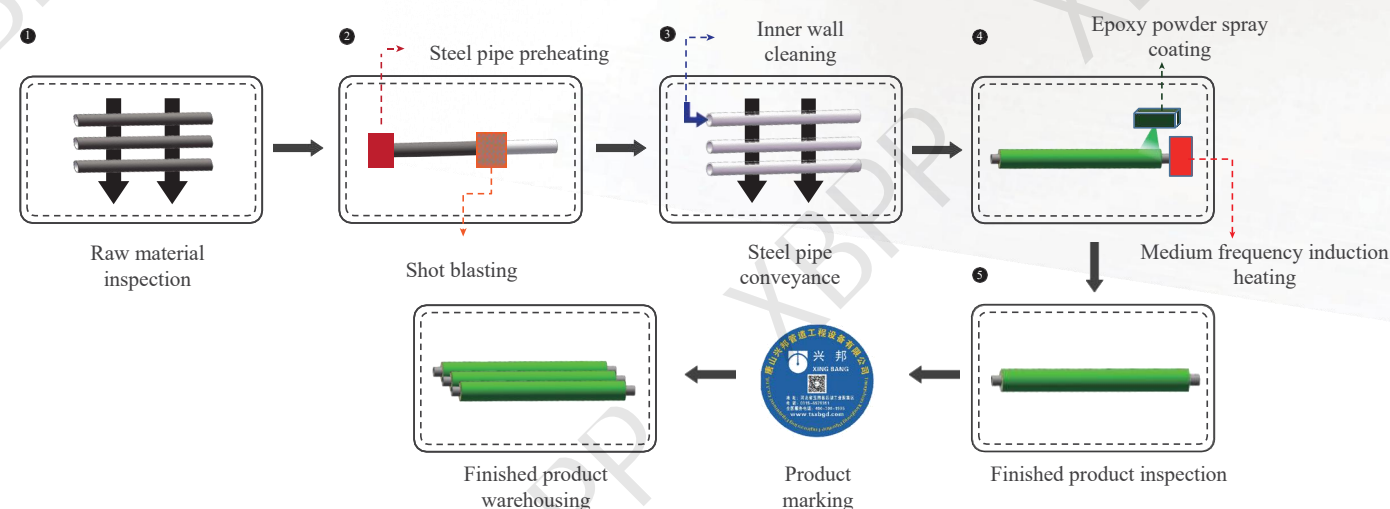
Executive standard

SY/T0315-2013 Technological specification of external fusion bonded epoxy coating for steel pipeline



External fusion bonded epoxy coating is formed in one step using electrostatic spray coating process. The buried fusion bonded epoxy coating steel pipe is applicable to delivering drinking water, sewage, petroleum, natural gas, coal gas and other mediums at an operating temperature of -30°C-80°C. This coating features easy operation, pollution-free and good resistance to impact, bending and heat.

Process flowchart of external fusion bonded epoxy coating (external FBE) for anti-corrosion of steel pipes:



Grade and thickness of single external fusion bonded epoxy coating

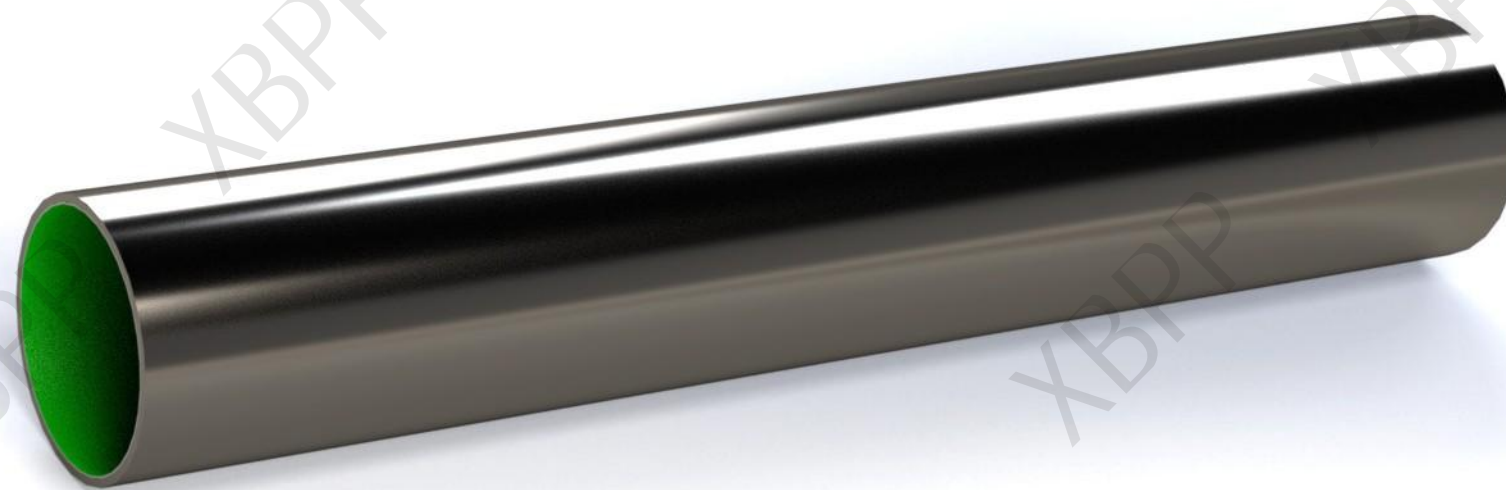
No.	Grade	Minimum thickness μm
1	Ordinary type	300
2	Enhanced type	400

Grade and thickness of double external fusion bonded epoxy coating

No.	Grade	Minimum thickness μm	
		Inner layer	Outer layer
1	Ordinary type	250	350
2	Enhanced type	300	500

Internal Fusion Bonded Epoxy Coating (Internal FBE) for Anti-corrosion of Steel Pipes

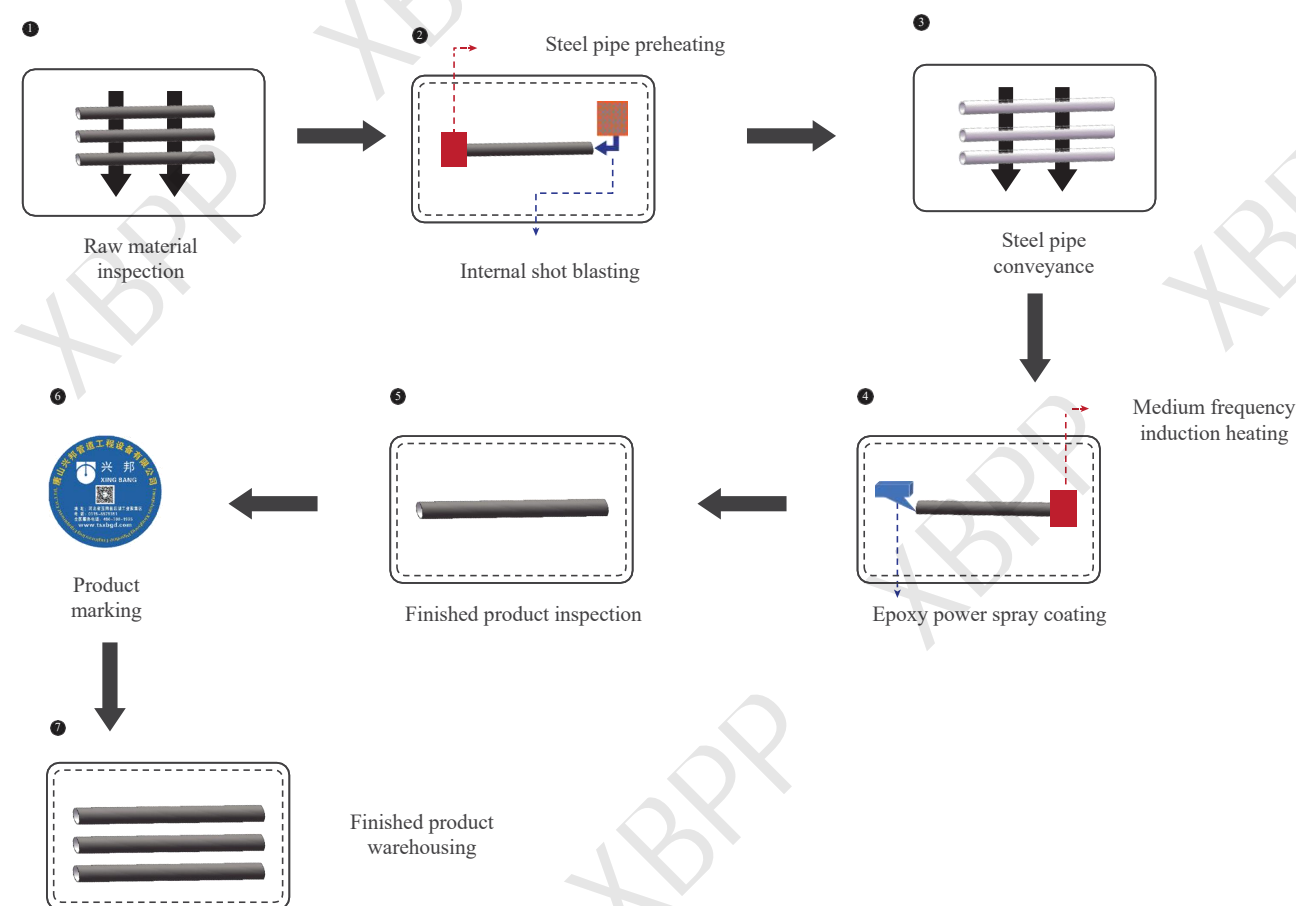
The internal fusion bonded epoxy coating steel pipe is applicable to delivering oils, natural gas, water and other mediums and its operating temperature does not exceed 80°C. It is mainly used to effectively reduce secondary pollution of the conveyed medium and extend the service life of steel pipe.



Executive standard

SY/T0442-2010 Technical standard for internal fusion bonded epoxy coating of steel pipe

Process flowchart of internal fusion bonded epoxy coating (internal FBE) for anti-corrosion of steel pipes:



Grade and thickness of internal fusion bonded epoxy coating (internal FBE)

Grade of anti-corrosion coating	Thickness of internal coating (μm)
Ordinary type	≥300
Enhanced type	≥500

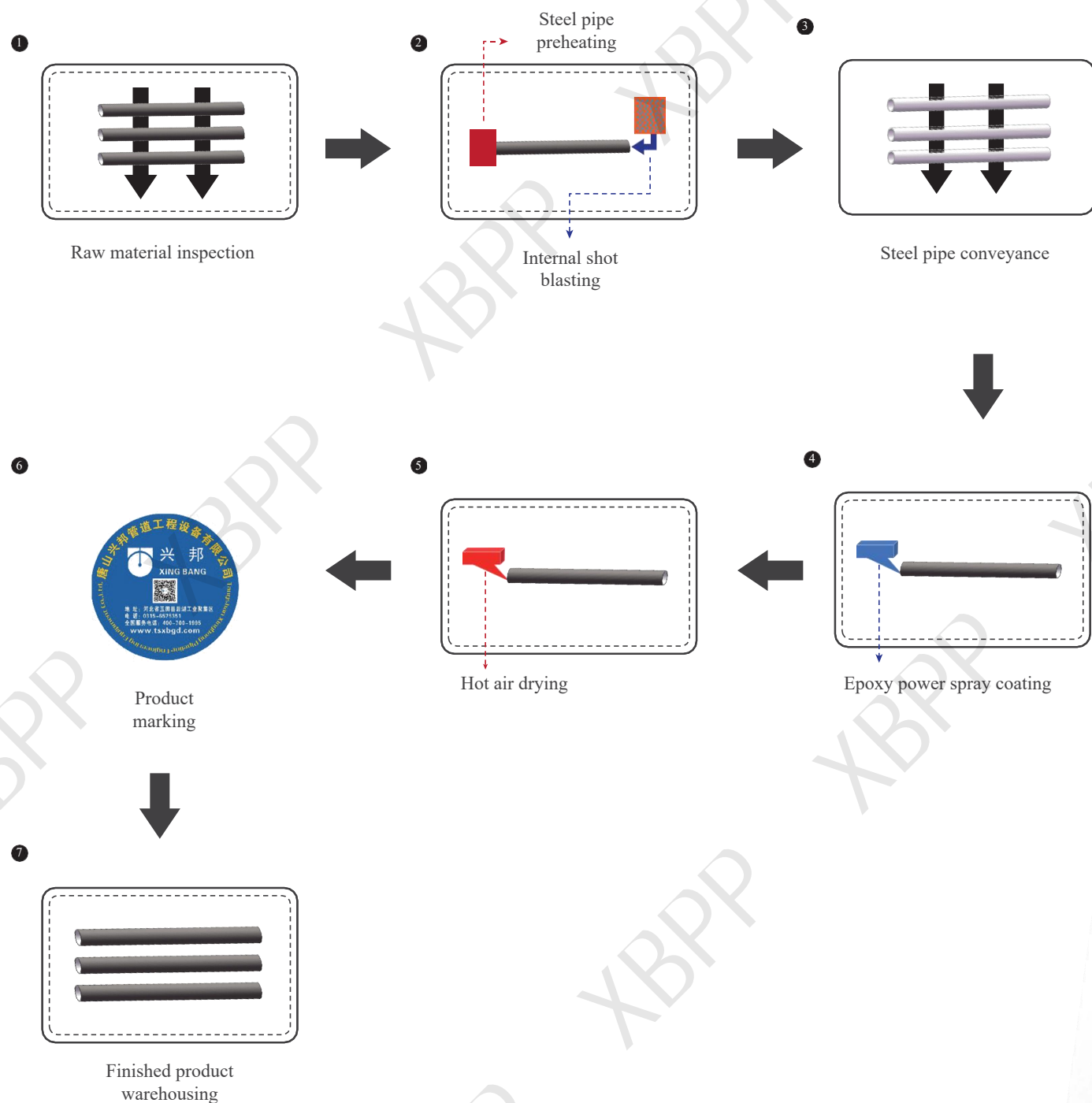
Executive standard

SY/T0457-2010 Technical standard of liquid epoxy internal coating for steel pipeline

Internal Liquid Epoxy Coating for Anti-corrosion of Steel Pipes

The internal liquid epoxy coating steel pipe is applicable to delivering crude oil, natural gas, water and other mediums and its operating temperature does not exceed 80°C. It is mainly used to effectively reduce secondary pollution of the conveyed medium and extend the service life of the steel pipe.

Process flowchart of internal liquid epoxy coating for anti-corrosion of steel pipes



Grade and thickness of internal liquid epoxy anti-corrosion coating

No.	Grade	Minimum thickness μm
1	Ordinary type	≥ 200
2	Enhanced type	≥ 300
2	Specially enhanced type	≥ 450

