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Coated steel pipes for gas piping

燃气管道涂覆钢管

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Foreword

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1 Scope

China's national standard for coated steel pipe used in gas piping. It specifies the terms and definitions, the classification and the requirements. Buried gas distribution pipe is the application where corrosion protection is not a maintenance question but a safety one: a steel pipe that corrodes through releases gas into the ground, where it migrates along the trench and into buildings, and the resulting explosions are among the most destructive accidents in urban utility operation. The coating is therefore the primary barrier and the cathodic protection is a backup for its defects rather than the other way round. What the standard has to control is the coating's integrity as delivered and its survival through installation - the handling, the stringing along the trench, the lowering in and the backfilling are where a factory-applied coating is damaged, and a holiday the size of a coin is enough to concentrate the corrosion that the rest of the coating prevented.

This document specifies the classification and code, order content, size, shape, weight and allowable deviation, technical requirements, Test methods, inspection rules, packaging, signs, quality certificates, transportation and storage: This document is applicable to coated welded and seamless steel pipes for urban gas pipelines (hereinafter referred to as "coated steel pipes"), and coated steel pipes for industrial gas pipelines: Steel pipes can be used as reference:

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text: Among them, dated references For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document:

GB/T 1725 Determination of non-volatile content of paints, varnishes and plastics

GB/T 1728 Determination of drying time of paint film and putty film

GB/T 1771 Determination of neutral salt spray resistance of paints and varnishes

GB/T 1865 Paints and varnishes artificial weathering and artificial radiation exposure filtered xenon arc radiation

GB/T 2102 Acceptance, packaging, marking and quality certificate of steel pipes

GB/T 3091 Welded steel pipes for low-pressure fluid transmission

GB/T 4472 Determination of Density and Relative Density of Chemical Products

GB/T 4956 Magnetic method for measuring the thickness of non-magnetic coatings on magnetic substrates

GB/T 6554 Resin-Based Reaction Compounds for Electrical Insulation Part 2: Test Methods Coating Powder Method for Electrical Use

GB/T 6739 Paints and Varnishes Pencil Method Determination of Paint Film Hardness

GB/T 6750 Determination of Density of Paints and Varnishes - Pycnometer Method

GB/T 1724 Determination of Grinding Fineness of Paints, Varnishes and Printing Inks GB/T 6753:

2 Small glass ball method for coating surface drying test GB/T 6753:

3 Test method for storage stability of coatings

GB/T 8163 seamless steel pipe for conveying fluid

GB/T 9269 Determination of paint viscosity Stormer viscometer method

GB/T 9274 Determination of resistance to liquid media of paints and varnishes

GB/T 9286 Paints and varnishes cross-cut test

GB/T 9711 Steel pipes for oil and gas industry pipeline transmission systems GB/T 21782:

13 Powder Coating Part 13: Particle Size Analysis by Laser Diffraction Method

GB/T 23987 Artificial weathering of paint and varnish coatings Exposure to fluorescent ultraviolet rays and water

GB/T 30062 Terminology for steel pipes

GB 30981 Limits of Hazardous Substances in Industrial Protective Coatings

GB/T 37594 Technical specification for anti-ultraviolet three-layer fused powder anti-corrosion outer coating for steel pipelines

GB/T 39636 Technical specification for steel pipeline fusion-bonded epoxy powder coating

HG/T 3668 Zinc-rich primer