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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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Spoolable reinforced plastic pipe - Part 1: General

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

drafted.

This document is part 1 of GB/T 38725 "Coilable Reinforced Plastic Pipe". GB/T 38725 has released the following parts.

--- Part 1. General;

--- Part 2. Fiber-reinforced thermoplastic coiled tubing.

This document refers to ISO 23936-1.2009 "Non-metallic materials in contact with media related to oil and gas production in the petroleum, petrochemical and gas industries

Part 1. Thermoplastics" drafted, the degree of consistency is non-equivalent.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

Coilable reinforced plastic pipes have been rapidly developed due to their excellent pressure resistance and medium corrosion resistance. In various industries, especially stone

The oil and petrochemical industry is more and more widely used. There are various choices of materials for the inner tube and reinforcement layer of this kind of pipeline, according to the different reinforcement layers.

It can be divided into non-metal reinforced coiled pipe and metal reinforced coiled pipe; according to the different inner pipe materials, it can be divided into polyethylene coiled pipe, heat-resistant poly

Ethylene coiled tubing, cross-linked polyethylene coiled tubing, polypropylene coiled tubing,

polyamide coiled tubing, polyvinylidene fluoride coiled tubing, etc.;

It can be divided into bonded coiled tubing and non-bonded coiled tubing. GB/T 38725 aims to establish the standards applicable to the drafting, formulation and

The guidelines for organizing work are proposed to consist of three parts.

--- Part 1.General. The purpose is to specify general guidelines to be followed for coilable reinforced plastic pipes.

--- Part 2.Fiber-reinforced thermoplastic coiled tubing. The purpose is to specify the requirements for products of fiber-reinforced thermoplastic coiled tubing.

Performance, inspection, packaging, transportation and storage requirements.

--- Part 3.Metal-reinforced thermoplastic coiled tubing. The purpose is to specify the product specification of metal reinforced thermoplastic coiled tubing.

Performance, inspection, packaging, transportation and storage requirements.

Coilable Reinforced Plastic Tube

Part 1.General

1 Scope

This document specifies product construction and classification, service condition classes, materials and product evaluations for coilable reinforced plastic pipes.

This document is applicable to oil and gas gathering and transportation, alcohol injection, water injection, sewage transportation in the petroleum industry, brine transportation in the salt chemical industry, and flow in other industries.

Pipeline system for body transportation (hot spring water transportation, mine slurry transportation, etc.).

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB/T 699 High Quality Carbon Structural Steel

GB/T 1033.1 Determination of Density of Plastic Non-foamed Plastics Part 1.Impregnation, Pycnometer and Titration

GB/T 1033.2 Determination of the density of non-foamed plastics - Part 2.Density gradient column method

GB/T 1038 Test method for gas permeability of plastic films and sheets - Differential pressure method

GB/T 1040.2 Determination of Tensile Properties of Plastics Part 2.Test Conditions for Molded and Extruded Plastics

GB/T 1220 stainless steel rod

GB/T 1633 Determination of Vicat Softening Temperature (VST) of Thermoplastics

GB/T 2965 Titanium and Titanium Alloy Bars

GB/T 3624 Titanium and Titanium Alloy Seamless Pipe

GB/T 3682.1 Determination of Plastic Thermoplastic Melt Mass Flow Rate (MFR) and Melt Volume Flow Rate (MVR)

Part 1.Standard Methods

GB/T 6111 Determination of internal pressure resistance of thermoplastic piping systems for fluid transportation

GB/T 6284 General Method for Determination of Moisture in Chemical Products Loss on Drying Method

GB/T 9341 Determination of flexural properties of plastics

GB/T 9345.1-2008 Determination of ash content of plastics - Part 1.General method

GB/T 9647 Determination of Ring Rigidity of Thermoplastic Pipes

GB/T 11182 Steel wire for reinforcement of rubber hose

GB/T 12006.1 Plastic polyamides - Part 1.Determination of viscosity number

GB/T 14152 Test method for external impact resistance of thermoplastic pipes

GB/T 14450 Steel wire for bead

GB/T 14976 Stainless steel seamless steel pipe for fluid transportation

GB/T 15560 Hydraulic instantaneous burst and pressure test method for plastic pipes for fluid conveying

GB/T 16604 Polyester Industrial Filament Yarn

GB/T 18252 Plastic piping systems Determination of long-term hydrostatic strength of thermoplastic materials in tubular form by extrapolation

GB/T 18369 Glass fiber roving

GB/T 18474 Test method for cross-linking degree of cross-linked polyethylene (PE-X) pipes and fittings

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