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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 39248-2020

[Including 2023XG1] Thermoplastic mufti-layer (non-vulcanized) hoses and hose assemblies for the transfer of hydrocarbons, solvents and chemicals-Specification

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

The translation method used in this standard is equivalent to ISO 27127.2014 "Thermoplastic Multilayer for Transporting Liquefied Petroleum Gas and Liquefied Natural Gas"

Specification for (non-vulcanized) hoses and hose assemblies.

The Chinese documents that have a consistent correspondence with the international documents cited in this standard are as follows.

---GB/T 229-2007 Charpy pendulum impact test method for metallic materials (ISO 148-1.2006, MOD);

---GB/T 1040.1-2018 Determination of the tensile properties of plastics Part 1.General (ISO 527-1.2012, IDT);

---GB/T 1844.1-2008 Plastic symbols and abbreviations Part 1.Basic polymers and their characteristic properties (ISO 1043-

1.2001, IDT);

---GB/T 3923.1-2013 Tensile properties of textile fabrics Part 1.Determination of breaking strength and elongation at break (Article

Sample method) (ISO 13934-1.1999, MOD);

---GB/T 5565.1-2017 Rubber and plastic hose and non-reinforced hose flexibility and stiffness measurement Part 1.Room temperature

Bending test (ISO 10619-1.2011, IDT);

---GB/T 5565.2-2017 Measurement of flexibility and stiffness of rubber and plastic hoses and non-reinforced hoses Part 2.Less than

Room temperature bending test (ISO 10619-2.2011, IDT);

---GB/T 7528-2019 Rubber and plastic hoses and hose assemblies terminology (ISO 8330.2014, IDT);

---GB/T 9573-2013 Rubber and plastic hose and hose assembly hose size and hose assembly length measurement method

(ISO 4671.2007, IDT).

This standard has made the following editorial changes.

--- Delete the "bar" unit representation in the text, and only keep the "MPa" unit representation.

This standard was proposed by the China Petroleum and Chemical Industry Federation.

This standard is under the jurisdiction of the National Rubber and Rubber Products Standardization Technical Committee (SAC/TC35).

Drafting organizations of this standard. Xiamen Zhuoli Petrochemical Equipment Co., Ltd., Shenyang Rubber Research and Design Institute Co., Ltd., China Light Industry Association (Dalian)

Installation Research Institute Co., Ltd.

1 Scope

This standard specifies two types of thermoplastic multilayer (non-vulcanized) hoses and hose sets for the transportation of liquefied petroleum gas and liquefied natural gas.

The requirements of the package. Each type is divided into 2 categories, one is for onshore and the other is for offshore.

---Class A is used on shore;

---Class B is used offshore.

This standard is applicable to the inner diameter of 25mm~300mm, the working pressure of 1.05MPa~2.5MPa and the working temperature range of -196 degrees C~

45°C thermoplastic multi-layer (non-vulcanized) hose and hose assembly.

Note. Offshore LNG hose assemblies are also specified in EN1472-2.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this document.

For undated references, the latest version (including all amendments) applies to this document.

GB/T 5563-2013 Rubber and plastic hoses and hose assemblies hydrostatic test method (ISO 1402.2009, IDT)

GB/T 9572-2013 Determination of electrical resistance and conductivity of rubber and plastic hoses and hose assemblies (ISO 8031.2009, IDT)

GB/T 24134-2009 Evaluation of ozone resistance of rubber and plastic hoses under static conditions (ISO 7326.2006, IDT)

ISO 148-1 Charpy Pendulum Impact Test for Metallic Materials Part 1.Test Method

ISO 527-1 Determination of the tensile properties of plastics Part 1.General

ISO 4671 Rubber and plastic hoses and hose assemblies, measuring methods for hose

size and hose assembly length

ISO 8330 Rubber and plastic hoses and hose assemblies terminology

ISO 1043-1 Plastic symbols and abbreviations Part 1.Basic polymers and their characteristic properties

ISO 10619-1 Rubber and plastic hoses and non-reinforced hoses-Measurement of flexibility and stiffness-Part 1.Room temperature bending test

ISO 10619-2 Rubber and plastic hoses and non-reinforced hoses-Measurement of flexibility and stiffness-Part 2.Bend test below room temperature