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

GB/T 1186-2016

Replacing GB/T 1186-2007

**Rubber hoses, textile-reinforced, for compressed air --
Specification**

压缩空气用织物增强橡胶软管 规范

(English Translation)

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Foreword

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

This standard replaces GB/T 1186-2007 "reinforced rubber hose for compressed air". Compared with GB/T 1186-2007 the technical changes are as follows.

- modified scope (see Chapter 1, Chapter 1 of the 2007 edition);
- Added terms and definitions (see Chapter 3);
- modified the classification of the hose (see Chapter 4, Chapter 3 of the 2007 edition);
- modified the hose "inside diameter" requirements (see 6.1, 2007 version 5.1);
- increased the hose "concentricity" requirement (see 6.2);
- increased the length of the hose "tolerance" (see 6.3);
- increased the physical performance requirements of the hose "compound" (see 7.1);
- Added "bending test" (see 7.2).

This standard uses the translation method equivalent to ISO 2398.:2006 "compressed air with fabric reinforced rubber hose specification".

And the normative reference in this standard international documents are consistent with the relationship between China's documents are as follows.

Determination of tensile stress - strain properties of vulcanized rubber or thermoplastic rubber (ISO 37.:2005, IDT); GB/T .

Vulcanized rubber or thermoplastic rubber - Test method for resistance to liquids (ISO 1817.:2005, MOD);

GB/T 3512-2014 vulcanized rubber or thermoplastic rubber hot air accelerated aging and heat resistance test (ISO 188.:2011, IDT);

GB/T 5563-2013 Rubber and plastics hoses and hose assemblies - Hydrostatic test method (ISO 1402.:2009, IDT);

GB/T 9573-2013 Rubber and plastics hoses and hose assemblies - Hose dimensions and hose length measurement method (ISO 4671.:2007, IDT);

--- GB/T 9575-2013 Rubber and plastic hose hose specifications and maximum and minimum internal diameter and cutting length tolerance (ISO 1307.

2006, IDT);

Rubber and plastics hoses - Determination of bond strength between layers (ISO 8033.:2006, IDT) GB/T 14905-2009.

This standard has made the following editorial changes.

- delete the "bar" unit in the text, leaving only the "MPa" unit.

This standard is proposed by the China Petroleum and Chemical Industry Association.

This standard is nationalized by the National Rubber and Rubber Products Standardization Technical Committee Hose Subcommittee (SAC/TC35/SC1).

The drafting of this standard unit. Penglai Ao of Rubber Products Co., Ltd., Shenyang Rubber Research and Design Institute Co., Ltd.

1 Scope

This standard specifies the maximum working pressure for compressed air at 2.5MPa and the operating temperature range according to the category at -40 °C ~ 70 °C Between the three types, three levels and two types of rubber hose requirements.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 5564-2006 Rubber and plastic hoses Low temperature flexing test (ISO 4672.:1997, IDT) Rubber or plastic reinforced hoses and non - reinforced hoses bending test (ISO 1746.:1998, IDT) GB/T 5565-2006.

GB/T 7528-2011 Terminology for rubber and plastic hoses and hose assemblies (ISO 8330.:2007, IDT) Rubber and plastics hoses - Assessment of ozone resistance under static conditions (ISO 7326.:2006, IDT) GB/T 24134-2009 ISO 37 vulcanized rubber or thermoplastic rubber tensile stress and strain properties of the determination (Rubber, vulcanized or thermoplastic-Determination of tensile stress-strain properties ISO 188 vulcanized rubber or thermoplastic rubber - accelerated aging or heat resistance test

(Rubber, vulcanized or thermoplastic-Accelerated ageing and heat resistance tests) ISO 1307
Rubber and plastic hose Hose specifications and maximum and minimum internal and
cutting length tolerances (Rubber and plastic hoses-Hoses sizes,
minimum and maximum internal diameters and tolerances on cut lengths) ISO 1402 Rubber and
plastic hoses and hose assemblies Hydrostatic test method
(Rubber and plastic hoses and hose assemblies-Hydrostatic testing) ISO 1817 vulcanized
rubber - the determination of the impact of liquid (Rubber,
vulcanized-Determination of the effects of liquids ISO 4671 Rubber and plastic hoses and
hose assemblies Hose size and hose assembly length measurement method (Rubber and
plastic hoses and hose assemblies-Methods of measurement of dimensions) ISO 8033
Determination of adhesive strength between rubber and plastic hoses
(Rubber and plastic hoses-Determination of adhesion between components)

3 Terms and definitions

The terms and definitions defined in GB/T 7528-2011 apply to this document.

4 Classification

According to the design pressure, the hose type is as follows.

--- 1 type. low pressure --- design maximum working pressure of 1.0MPa;