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

GB/T 30475.3-2017

Filters for compressed air -- Test methods -- Part 3: Particulates

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Foreword

GB/T 30475 "compressed air filter test method" is divided into four parts.

--- Part 1. Suspended oil;

--- Part 2. Oil vapor;

--- Part 3. Particles;

--- Part 4. Water.

This section GB/T 30475 Part 3.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the redrafted law Amendment uses ISO 12500-3.2009 "compressed air filter Part 3. Test method

Grain "(English version).

Taking into account China's national conditions, this section in the use of ISO 12500-3.2009, made some changes. The technical differences have been incorporated

Text, and marked with a vertical single line in the margins of the articles to which they relate. These technical differences and their are given in Appendix B.

The list of reasons for reference.

For ease of use, this section also made the following editorial changes.

--- Pressure unit "MPa" instead of "bar", and numerical conversion.

This part is proposed by China Machinery Industry Federation.

This part of the National Standardization Technical Committee compressor (SAC/TC145) centralized.

This part of the drafting unit. Hefei General Machinery Research Institute, Hangzhou Risheng purification equipment Co., Ltd., Wuxi City, Hualing Filter Equipment Co., Ltd.

Division, Xi'an United ultrafiltration purification equipment Co., Ltd., Hangzhou Broad purification equipment Co., Ltd., Guangdong Tai'an I-gas Equipment Co., Ltd., on Haishuo Health Technology Co., Ltd., Guangdong Yip Si Industrial Co., Ltd.

1 Scope

GB/T 30475 provisions of this part of the filter removal of different particle size in the determination of filtration efficiency of the selected test method,

As well as the equipment layout and testing procedures required for these tests.

This section applies to the removal of particulate compressed air filter.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article

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

GB/T 786.1 Fluid power systems and components - Graphical symbols and circuit diagrams - Part 1. Diagrams for general use and data processing

Symbol (GB/T 786.1-2009, ISO 1219-1:2006, IDT)

GB/T 10893.1 compressed air dryer Part 1. Specification and test (GB/T 10893.1-2012, ISO 7183:2007, MOD)

GB/T 13277.1-2008 Compressed air - Part 1. Purification level of contaminants (ISO 8573-1:2001, MOD)

Compressed air Part 4. Methods of measurement of solid particles (ISO 8573-4:2001, MOD) GB/T 13277.4-2015

GB/T 17446 fluid transmission systems and components vocabulary (GB/T 17446-2012, ISO 5598:2008, IDT)

ISO 12103-1 Road vehicles - Test dust for filter assessment - Part 1. Arizona test dust (Roadvehic-

cles-Testdustforfilterevaluation-Part 1.Arizonatestdust)

EN 1822-1 High Efficiency Air Filters (HEPA and ULPA) Part 1 Classification, Performance Tests, Markings [High

efficiencyairfilters (HEPAandULPA) -Part 1.Classification, performancetesting, marking]

EN 1822-2-1998 High Efficiency Air Filters (HEPA and ULPA) Part 2. Aerosol Generation, Measurement Equipment, Particles

Counting statistics [High efficiency air filters (HEPA and ULPA) -Part 2. Aerosol production, measuring equipment, particle counting statistics]

3 Terms and definitions

GB/T 13277.1-2008 and GB/T 17446 as defined by the following terms and definitions apply to this document.

3.1

Channel

An upper bound and a lower bound subset of data defined in the full spectrum of particle counters.

3.2

Efficiency

The ratio of particle concentration is removed, that is, the ratio of the upstream particle concentration minus the downstream particle concentration to the upstream particle concentration.

3.3

Filter

Components that remove solid particles, including filter elements and their housings and other required components.