

ICS 23.140

CCS J 72



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

GB/T 13277.2-2015

Compressed air -- Part 2: Test methods for oil aerosol content

压缩空气 第2部分：悬浮油含量测量方法

(English Translation)

Issued on: December 31, 2015

Implemented on: June 30, 2016

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People 's Republic of China**

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Foreword

GB/T 13277 "Compressed air" is divided into 9 parts.

- Part 1. Pollutant Purification Level;
- Part 2. Suspended oil content measurement method;
- Part 3. Humidity measurement method;
- Part 4. Solid particle measurement methods;
- Part 5. Methods for the measurement of oil vapor and organic solvents;
- Part 6. Measurement of gaseous pollutant content;
- Part 7. Measurement of active microbial content;
- Part 8. Solid particle mass concentration measurement method;

Part 9. Methods for the measurement of liquid water content.

This part is part 2 of GB/T 13277.

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

This part uses the re-drafting method to modify ISO 8573-2.:2007 "Compressed air Part 2. Suspended oil content measurement method" (English version).

Taking into account our national conditions, this part of the use of ISO 8573-2.:2007, made some changes. The technical differences have been incorporated into the text and in the margins of the terms to which they relate. These technical differences and their originals are given in Appendix D for a list of references.

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

- a) the word "international standard" is replaced by the words "this part";
- b) Replace the comma as a decimal point with a decimal point "."
- c) Replace "bar" with "MPa" for pressure units;
- d) Deleting ISO 8573-2:2007 Preface.

This part is made by the China Machinery Industry Federation.

This part is headed by the National Standardization Technical Committee of Compressors (SAC/TC145).

This part of the drafting unit. Hefei General Machinery Research Institute, Hangzhou Risheng purification equipment Co., Ltd., Guangzhou, Guangdong and Guangdong purification Technology Co., Ltd.

Division, Wuxi City Hualing Filter Equipment Co., Ltd., Hefei General Environmental Control Technology Co., Ltd., Hefei General Electromechanical Products Testing Institute Limited liability company, Shanghai ultrafiltration compressor purification equipment Co., Ltd., Xi'an joint ultrafiltration purification equipment Co., Ltd., Hangzhou than Beisi filter technology Limited company, Guangdong Tai'an Iraq Overseas Chinese Gas Equipment Co., Ltd., Shenzhen Hong-day purification equipment Technology Co., Ltd.

1 Scope

This part of GB/T 13277 specifies the sampling and quantitative analysis of liquid and suspended oils in compressed air (Method A and Method B).

This part applies to the general use of compressed air system in the oil content measurement, oil measurement range of 0.001mg/m³ ~ 40mg/m³.

This section does not apply to the measurement of the oil vapor content in compressed air. See also ISO 8573-5 "Compressed Air Part 5 Points. oil vapor and organic solvent measurement method".

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 13277.1 Compressed air - Part 1. Degree of purification of pollutants (GB/T 13277.1-2008, ISO 8573-1:2001, MOD) GB/T 30475.1 Test methods for compressed air filters - Part 1. Suspension oils (GB/T 30475.1-2013, ISO 12500-1:2007, MOD)

3 Terms and definitions

GB/T 13277.1 Definitions and the following terms and definitions apply to this document.

Oil

A mixture of six or more carbon atoms, i.e., C₆, 3.2 Suspension oil oilaerosol Suspension of suspended liquid oil mixture suspended in the gaseous medium.

Wall flow walflow

Tube part of the air flow is no longer suspended when the part of the liquid pollutants.

4 Units

The units used in this section are units commonly used by the International System of Units (SI).

5 Standard status

The standard conditions for the description of the suspended oil content are as follows.

a) air temperature. 20 ° C;