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

GB/T 25749.3-2010

**Safety of machinery -- Evaluation of the emission of airborne
hazardous substances -- Part 3: Test bench method for the
measurement of the emission rate of a given pollutant**

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Foreword

GB/T 25749 "assessment of emissions of harmful substances airborne machinery safety" by the following nine components.

Selection of test methods. --- Part 1

--- Part 2. Measuring the emission rate of a given pollutant tracer gas method

--- Part 3. Measuring the rate of a given pollutant emission test bench method

--- Part 4. capture efficiency of an exhaust system measuring tracer method

--- Part 5. Measurement of air purification system without conduit outlet mass separation efficiency, test bench method

--- Part 6. Measuring the quality of the separation efficiency air purification system with duct outlet, test bench method

--- Part 7. measurement of pollutant concentrations, test bench method

--- Part 8. Measuring the concentration of pollutants in indoor law

--- Part 9. Purification Index

This part of GB/T 25749 Part 3.

This part identical with ISO 29042-3:2009 "Safety of machinery - Assessment airborne emissions of harmful substances - Part 3. Measurement

Given pollutant emission rate, test bench method "(in English).

This section is equivalent translation ISO 29042-3:2009. For ease of use, this section made the following editorial changes.

--- Deleted the ISO foreword, preface rewritten;

--- Delete the contents of the introduction of international standards on ISO /TC199 scope of work;

--- Remove the contents of the introduction of international standards on the relationship with the international standards of the European standard;

--- Chapter 1 column item number changed to "a), b), c), d), e)";

--- Denoted root symbol "" instead of international standards "sqrt";

--- The Lead Normative documents according to GB/T 1.1-2009 modified and ISO 29042-3:2009 references country

Corresponding to international standards to national standards.

This part of the National Safety Standardization Technical Committee (SAC/TC208) and focal points.

This section is drafted. Mechanical Science Research Institute, Shenzhen City, measuring Detection Technology Co., Ltd., a limited LiuGong

The company, Nanjing Forestry University Institute of Engineering electromechanical meter.

Introduction

Machinery safety standard is structured as follows.

--- A class standard (basic safety standards) give basic concepts apply to all mechanical, design principles and general characteristics.

--- B class standard (generic safety standards), it relates to a mechanical safety feature or use a wide range of safety devices for a class.

* B1 class, specific security features (e.g., safety distance, surface temperature, noise) standard;

* B2 class, the safety device (such as a hand control devices, interlocking devices, pressure sensitive devices, guards).

--- C class standards (machine safety standards), for a particular machine or group of machines shall specify detailed safety standard requirements.

According to GB/T 15706.1, this section is a Class B standards.

Class C standard may supplement or modify the terms of this section.

For Class C in accordance with the standard design and construction of the machine, if the C class standards in terms of Class A or Class B standards are inconsistent, priority

Using C standard.

Hazardous Substances Safety of machinery airborne

Assessment of emissions - Part 3. Measuring a given pollutant

Emission rate, test bench method

1 Scope

This section GB/T 25749 specifies the machine under specified operating conditions, measuring airborne emissions of harmful substances from the machine

Rate, test bench method.

Measuring machine emission rate of a given pollutant emissions can be used.

a) evaluate the performance of the machine drainage system;

b) assessment of machine emissions reduction;

Comparison within the machine c) the intended use of the machine with the same group between (defined by the functional group of machines and materials processing);

d) in accordance with the emission rate for the same group of machines machines are classified;

e) in accordance with the emission rate to determine the technical level of the machine.

This section does not apply to the manufacture of machinery prior to its release.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein

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

GB/T 15706.1-2007 Safety of machinery - Basic concepts, general principles for design - Part 1. Basic terminology, methodology (ISO

12100-1:2003, IDT)

3 Terms and Definitions

GB/T 15706.1-2007 and as defined in the following terms and definitions apply to this document.

3.1

Given the uncontrolled emission rate of pollutants uncontroledemissionrateofagivenpolutant
 μ

Emissions per unit of time machine to the quality of the surrounding space of pollutants.

Note. not taking any peripheral devices to reduce air pollution measures (for example. capture device, sealing equipment, humidification process).

[GB/T 25749.1-2010, Definition 3.1]

3.2

To the controlled emission rate of a given pollutant controledemissionrateofagivenpolutant
mk

Measures taken to reduce air pollution case, the unit of time emitted by machines to the
quality of the surrounding space pollutants.

NOTE. The machine should be taken to reduce ambient air pollution measures (for
example. capture device, sealing equipment, humidification process).

[GB/T 25749.1-2010, the definition 3.2]