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

GB/T 25749.2-2010

**Safety of machinery -- Evaluation of the emission of airborne
hazardous substances -- Part 2: Tracer gas 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 2.

This part identical with ISO 29042-2:2009 "Safety of machinery - Assessment airborne emissions of harmful substances - Part 2. Measurement

Given pollutant emission rate of tracer gas method "(in English).

This section is equivalent translation ISO 29042-2:2009. 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;

--- The Lead Normative documents according to GB/T 1.1-2009 modified and ISO 29042-2:2009 references country

Corresponding to international standards to national standards;

--- 6.6 column item number changed to "a), b), c), d), e)".

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), covering the mechanical characteristics of a safe or use a wider class of safety devices.

* 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.

Provisions of this section may be supplemented or modified by the C standard.

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 2. Measuring a given pollutant

Emission rate of tracer gas method

1 Scope

This section GB/T 25749 specifies the method of using tracer gas measurement technology in the operating state of a single machine controlled gaseous substance

The method of emission rate.

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)

Select test method. GB/T 25749.1-2010 Safety of machinery - Assessment airborne emissions of harmful substances - Part 1

(ISO 29042-1:2008, IDT)

3 Terms and Definitions

GB/T 15706.1-2007 and GB/T 25749.1 defined and the following terms and definitions apply to this document.

3.1

Tracer gas technology tracergastechnique

Use the aerodynamic properties of gaseous harmful substances considered similar and gaseous substance technology concentration can be measured reliably.

Principle 4

This principle is based on the tracer gas in order to adopt a known constant emission rate as the best representation of generating sources. And tracer gas

The average concentration of pollutants measured in the vicinity of emission sources. Assuming that contaminants aerodynamics with the same tracer gas, sewage can be determined

Dye emission rate thereof.

5.1 Overview

This method is intended for laboratory or field is located in the machine.

5.2 Indoor law

Overall airflow pattern features the laboratory should be able to achieve more precise control of the general and local ventilation. The machine should be placed in a laboratory

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