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**INDUSTRY STANDARD OF THE
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**Technical specifications of catalytic combustion method for
industrial organic emissions treatment project**

催化燃烧法工业有机废气治理工程技术规范

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Table of Contents

Foreword

1 Scope of application

2 Normative references

3 Terms and definitions

3.1 Industrial organic emissions

3.2 Explosion limit explosive limit

3.3 Lower explosive limit lower explosive limit

3.4 Oxidation catalyst

3.5 Heat storage heat regenerator

3.6 Catalyst poisoning catalyst poisoning

3.7 Catalytic burner catalytic oxidizer

3.8 Conventional catalytic combustion device

3.9 Regenerative catalytic oxidizer (RCO)

3.10 Ignition temperature

3.11 Self-sustained combustion

3.12 Space velocity

3.13 Purification efficiency

4 Contaminants and pollution loads

5.1 General provisions

5.2 Engineering composition

5.3 Site selection and general layout

6 Process design

6.1 General requirements

6.2 Selection of process routes

6.3 Process design requirements

6.4 Secondary pollution control

6.5 Security measures

7 Main process equipment

8 Detection and process control

8.1 Testing

8.2 Process Control

9 Major auxiliary projects

- 9.1 Electrical system
- 9.2 Water supply, drainage and fire protection systems
- 10 Construction and acceptance
 - 10.1 Engineering Construction
 - 10.2 Project Acceptance
 - 10.3 Completion of environmental protection acceptance
- 11 Operation and maintenance
 - 11.1 General requirements

Foreword

To implement the "Environmental Protection Law of the People's Republic of China" and the "Law of the People's Republic of China on the Prevention and Control of Air Pollution" the construction of the project, prevention and control of industrial organic waste gas pollution, improvement of environmental quality, the development of this standard.

This standard specifies the technical requirements for the design, construction, acceptance and operation of industrial organic waste gas catalytic combustion treatment engineering.

This standard is a guidance document.

This standard is the first release.

This standard was formulated by the Science and Technology Standards Department of the Ministry of Environmental Protection.

This standard is mainly drafted by. China Environmental Protection Industry Association, Chinese People's Liberation Army Institute of Chemical Defense, Chinese Academy of Sciences Ecological Environment Research Research Center, Beijing Lvhuang Environmental Protection Equipment Co., Ltd., China Energy Saving Tianchen (Beijing) Environmental Protection Technology Co., Ltd., Beijing Odvina Environmental Protection Festival Energy Technology Co., Ltd., Jiayuan Environmental Protection Co., Ltd., Kemaike (Hangzhou) Environmental Protection Equipment Co., Ltd.

This standard was approved by the Ministry of Environmental Protection on March 29, 2013.

This standard has been implemented since July 1, 2013.

This standard is explained by the Ministry of Environmental Protection.

Technical Specifications for Industrial Organic Waste Gas Treatment Engineering by Catalytic Combustion

1 Scope of application

This standard specifies the technical requirements for the design, construction, acceptance and operation of industrial organic waste gas catalytic combustion treatment engineering.

This standard is applicable to the catalytic combustion treatment of industrial organic waste gas, and can be used as environmental impact assessment, engineering consulting, design, construction, the technical basis for operation and management after acceptance and completion.

2 Normative references

The contents of this standard refer to the terms in the following documents. For undated references, the valid version applies to this standard.

GB 12348 industrial enterprise boundary noise standard GB/T 16157 Determination of particulate matter in fixed pollution source exhaust gas and sampling method of gaseous pollutants GB 50016 Building Design Fire Code GB 50019 Heating, Ventilation and Air Conditioning Design Code GB 50051 exhaust pipe design specification GB 50057 lightning protection design code for buildings GB 50058 Specification for design of electrical installations for explosion and fire hazard environments GB 50140 Building Fire Extinguisher Configuration Design Specification GB 50160 Petrochemical Enterprise Design Fire Protection Code GB 50187 General Plan for Design of Industrial Enterprises GB J 87 Industrial Enterprise Noise Control Design Specification HGJ 229 Industrial equipment, pipeline anti-corrosion engineering construction and acceptance specifications HJ/T 1 gas parameter measurement and sampling fixed position device HJ/T 389-2007 Industrial Organic Waste Gas Catalytic Purification Device HJ .2000 Technical Guidelines for Air Pollution Control Engineering JJF 1049 temperature sensor dynamic response calibration "Design Regulations for Environmental Protection of Construction Projects" National Planning Commission, State Council Environmental Protection Committee [1987] No. 002 Regulations on Environmental Protection Management of Construction Projects, State Council of the People's Republic of China [1998] No. 253 "Measures for Completion and Acceptance of Construction Projects (Engineering)" National Planning Commission.1990 "Administrative Measures for Environmental Protection Acceptance of Completion of Construction Projects" State Environmental Protection Administration Order [2002] No. 13

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1 Industrial organic emissions

Refers to gaseous pollutants containing volatile organic compounds emitted by industrial processes.

3.2 Explosion limit explosive limit

Also known as the explosive concentration limit. The concentration range in which a combustible gas or vapor can be exploded after mixing with air is called the explosion limit.

3.3 Lower explosive limit lower explosive limit

Refers to the lowest concentration value of the explosion limit.

3.4 Oxidation catalyst

Refers to a catalyst that catalyzes the oxidation of organic compounds by catalysis.

3.5 Heat storage heat regenerator

Refers to a structure that contains a relatively porous hole, utilizes the structure and specific surface area of the hole, and combines the material of the material itself to achieve heat storage and exchange function.

Inorganic non-metallic solid materials.

3.6 Catalyst poisoning catalyst poisoning

Refers to the phenomenon that the catalytic activity of the catalyst is degraded or lost due to the action of certain substances.

3.7 Catalytic burner catalytic oxidizer

Refers to the use of solid catalysts to convert pollutants in the exhaust gas into compounds such as carbon dioxide and water through oxidation, and to purify pollutants in the exhaust gas.

Equipment and its ancillary facilities. Catalytic combustion devices typically consist of a catalytic reaction chamber, a heat exchange chamber, and a heating chamber.

3.8 Conventional catalytic combustion device

Refers to a catalytic combustion device that uses a gas-gas heat exchanger for indirect heat exchange.