

HJ

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

HJ 1096-2020

**Technical guidelines of accounting method for pollution source
intensity ceramics products manufacturing**

污染源强核算技术指南 陶瓷制品制造

(English Translation)

Issued on: January 1, 1970

Implemented on: March 1, 2020

Issued by: Ministry of Ecology and Environment

Table of Contents

Foreword

1 Scope of application

2 Normative references

3 Terms and definitions

4 Source-strength accounting procedures

5 Calculation method of waste gas pollution source strength

6 Calculation method of wastewater pollution source strength

7 Calculation method of noise source strength

8 Calculation method of solid waste source strength

9 Other

Appendix A (informative appendix) calculation results of pollution source intensity of ceramic products and related parameter list form

Appendix B (informative appendix) Recommended methods for strong calculation of volatile organic sources in the baking process of daily ceramics

Appendix C (Informative Appendix) Reference Value of Output Conversion Coefficient

Appendix D (Informative Appendix) Raw Material Utilization Factor

Appendix E (informative appendix) Pollution prevention technology and effect of ceramic products manufacturing

Appendix F (Informative Appendix) Reference Index of Dust Removal and Air Intake Volume of Common Production Equipment

Appendix G (Informative Appendix) Operation of Ceramic Products Manufacturing Facilities and Exhaust Gas Emission Rules

Appendix H (Informative Appendix) Energy Consumption Standards for Ceramic Products Manufacturing (Excerpt)

Appendix I (Informative Appendix) Composition of Typical Raw and Auxiliary Materials for Ceramic Product Manufacturing

Appendix J (Informative Appendix) Sound Pressure Level of Main Noise Sources in Ceramic Product Manufacturing

Foreword

To implement the Environmental Protection Law of the People's Republic of China, the Environmental Impact Assessment Law of the People's Republic of China, and the People's Republic of China the Air Pollution Prevention and Control Law of the Republic of China, the Water Pollution Prevention and Control Law of the People's Republic of China, and the

Environmental Noise Pollution Prevention and Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes, and the Law of the People's Republic of China on the Prevention and Control of Soil Pollution, etc.

Laws and regulations, improve the calculation method system of fixed pollution source intensity, guide and standardize the calculation of pollution source intensity of ceramic products, Develop this standard.

This standard specifies the basic principles for the calculation of the pollution source intensity of waste gas, waste water, noise, and solid waste from the manufacture of ceramic products, Contents, accounting methods and requirements, etc.

Appendix A to Appendix J of this standard are all informative appendices.

This standard is issued for the first time.

This standard is formulated by the Department of Environmental Impact Assessment and Emission Management and the Department of Regulations and Standards of the Ministry of Ecology and Environment.

The main drafting organizations of this standard. Environmental Engineering Evaluation Center of Ministry of Ecology and Environment, Environmental Engineering Evaluation of Jiangxi Environmental Protection Department Evaluation Center, Building Materials Industry Technology Information Research Institute, Fujian Jinhuan Environmental Technology Co., Ltd., Jingdezhen Ceramic University.

This standard was approved by the Ministry of Ecology and Environment on January 17, 2020.

This standard will be implemented on March 1, 2020.

This standard is interpreted by the Ministry of Ecology and Environment.

Technical Guidelines for Pollution Source Intensity Accounting Ceramic Product Manufacturing

1 Scope of application

This standard specifies the basic principles, content, accounting methods and requirements for the calculation of pollution source intensity in ceramic product manufacturing.

This standard is applicable to the calculation of pollution sources of new (reconstruction, expansion) projects and existing projects of ceramic product manufacturing.

This standard is applicable to the calculation of pollution source intensity under normal working conditions and abnormal working conditions of ceramic products. It is not applicable to leakage of hazardous materials, Calculation of the release source intensity of pollutants accompanying or secondary to sudden accidents such as fires and explosions.

This standard applies to the calculation of the pollution source intensity of waste gas, waste water, noise, and solid waste in the production process of ceramic products. It does not apply to Source strength calculation for the mining and primary processing of ceramic raw and auxiliary materials. Implement "Emission Standard of Air Pollutants for Thermal Power Plants" (GB 13223) the source strength of the boiler pollution source is calculated in accordance with the "Technical Guidelines for Calculation of Pollution Source Strength Thermal Power" (HJ 888); implement the "Boiler Air Pollution the pollution source intensity of the boiler in the "Environmental Emission Standard" (GB 13271) shall be calculated in accordance with the "Technical Guide for the Calculation of Pollution Source Strength Boiler" (HJ 991).

2 Normative references

This standard quotes the following documents or their clauses. For undated references, the latest version applies to this standard.

GB 13223 Emission Standard of Air Pollutants for Thermal Power Plants GB 13271 Boiler Air Pollutant Emission Standard GB 25464 Pollutant Emission Standard for Ceramic Industry GB 50015 Code for Design of Building Water Supply and Drainage GB/T 16157 Determination of particulate matter in exhaust from stationary sources and sampling method for gaseous pollutants HJ 2.1 General outline of technical guidelines for environmental impact assessment of construction projects HJ 2.2 Technical Guidelines for Environmental Impact Assessment Atmospheric Environment HJ 2.3 Technical Guidelines for Environmental Impact Assessment Surface Water Environment HJ 2.4 Technical Guidelines for Environmental Impact Assessment Acoustic Environment HJ 75 Technical Specification for Continuous Monitoring of Smoke (SO₂, NO_x, Particulate Matter) Emissions from Stationary Pollution Sources HJ 76 Technical requirements and detection methods of continuous monitoring system for emission of stationary pollution source flue gas (SO₂, NO_x, particulate matter) HJ/T 91 Technical specification for surface water and sewage monitoring HJ/T 92 Technical Specification for Monitoring Total Discharge of Water Pollutants HJ/T 353 Water Pollution Source Online Monitoring System Installation Technical Specification (Trial) HJ/T 354 Technical Specification for Acceptance of Online Water Pollution Source Monitoring System (Trial) HJ/T 355 Water Pollution Source Online Monitoring System Operation and Assessment Technical Specification (Trial) HJ/T 356 Technical Specification for Data Validity Judgment of Online Water Pollution Source Monitoring System (Trial) HJ/T 373 Fixed pollution source monitoring quality assurance and quality control technical specifications (trial implementation) HJ/T 397 Fixed source exhaust gas monitoring technical specification HJ 630 Technical Guidelines for Environmental Monitoring Quality Management HJ 819 General Rules of Technical Guidelines for Self-monitoring of Pollutant Discharge Unit HJ 884 Technical Guidelines for Pollution Source Intensity Accounting HJ 888 Technical Guide for Pollution Source Intensity Accounting Thermal Power HJ 991 Pollution Source Strength Accounting Technical Guide

Boiler HJ 954 Pollutant Discharge Permit Application and Issuance Technical Specification
Ceramic Tile Industry HJ 2304 Pollution Prevention and Control Technology Guide for
Ceramic Industry "Notice on Doing a Good Job in the Linkage of Environmental Impact
Assessment System and Pollution Discharge Permit System" (Environmental Environment
Assessment (2017) No. 84) "Notice on Printing and Distributing the "Industrial Furnace and
Kiln Air Pollution Comprehensive Treatment Plan"" (Huan Qiqi [2019] No. 56)

3 Terms and definitions

The following terms and definitions apply to this standard.

Ceramic products manufacturing the raw materials are processed into various ceramic products through the processes of preparation, forming, firing, etc. The products mainly include architectural ceramics, sanitary ceramics, Special ceramics, daily-use and furnishing art ceramics, etc.

Abnormal situation

Abnormal conditions of production facilities or pollution prevention (control) facilities, such as starting and stopping the kiln (tower), equipment maintenance, abnormal operation of process equipment or Pollution prevention and control facilities fail to achieve the expected treatment efficiency or synchronous operation rate.

Accounting period

Refers to the time range in which relevant management regulations determine the amount of pollutants generated or discharged, and generally take the year, day, hour, etc. as the accounting period.

Note: The value of the accounting period should be the effective time for a certain pollution source to produce or discharge a certain pollutant, and the purpose is to reasonably determine the source intensity.

4.1 General principles

The pollution source intensity calculation procedures include the identification of pollution sources and the determination of pollutants in each process, the selection of accounting methods and parameters, the calculation of source intensities, and the for summary of calculation results, see HJ 884 for details.

4.2 Pollution source identification

The identification of pollution sources in the manufacture of ceramic products should cover all processes and sites that may generate exhaust gas, wastewater pollutants, noise, and solid waste.

For details, see Table 1 to Table 4.