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

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**Technical guidelines of accounting method for pollution source
intensity electroplating industry**

污染源源强核算技术指南 电镀

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Foreword

In order 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 Dyeing Prevention and Control Law, Law of the People's Republic of China on Prevention and Control of Water Pollution, Law of the People's Republic of China on Prevention and Control of Environmental Noise Pollution, Laws and regulations on the prevention and control of environmental pollution by solid waste, improve the system of strong accounting methods for fixed sources of pollution, and guide and standardize sources of electroplating pollution Strong accounting work, the development of this standard.

This standard stipulates the basic principles, contents, accounting methods and methods for the strong accounting of waste gas, waste water, noise and solid waste in the electroplating industry.

Request and so on.

Appendix A to Appendix G of this standard are informative annexes.

This standard is the first release.

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

This standard is mainly drafted by. Environmental Engineering Evaluation Center of the Ministry of Environmental Protection, Fourth Design and Research Institute of Machinery Industry, Tibet God State Ruilin Environmental Protection Technology Co., Ltd.

This standard is approved by the Ministry of Ecology and Environment on November 27, 2018.

This standard has been implemented since January 1, 2019.

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

Pollution source strong accounting technical guide plating

1 Scope of application

This standard stipulates the basic principles, contents, accounting methods and requirements for strong accounting of sources of electroplating pollution.

This standard is applicable to the source strength calculation of new (reconstruction, expansion) construction pollution sources and existing engineering pollution sources in the electroplating industry.

This standard is applicable to the strong accounting of pollution sources under the normal working conditions of the electroplating industry, and is not suitable for accidents such as sudden leakage, fire, explosion, etc.

Source strong accounting.

This standard is applicable to electroplating industry waste gas, wastewater, noise, solid waste pollution sources including electroplating, electroless plating, anodizing process, etc.

Strong accounting, metal pickling, polishing (electropolishing and chemical polishing), chemical oxidation, phosphating, passivation and other processes can be carried out with reference to this standard.

The strong accounting of wastewater, noise and solid waste pollution sources of centralized sewage treatment plants specializing in electroplating wastewater can also be implemented with reference to this standard.

For the strong calculation of the surface metallization process of steel in the rolling industry, refer to the relevant content in HJ 885. Execution of GB 13271 boiler pollutant source

Accounting according to the boiler's source code for strong source accounting.

2 Normative references

This standard refers to the following documents or their terms. For undated references, the latest edition applies to this standard.

GB 12348 Environmental noise emission standards for industrial enterprises GB 13271 Boiler Air Pollutant Emission Standard GB 21900 Electroplating Pollutant Emission Standard GB 50015 Building Water Supply and Drainage Design Code GB/T 16157 Determination of particulate matter in fixed pollution source exhaust gas and sampling method of 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 Environmental Impact Assessment Technical Guidelines Surface Water Environment HJ 2.4 Environmental Impact Assessment Technical Guidelines Acoustic Environment HJ/T 91 Surface Water and Wastewater Monitoring Technical Specifications HJ/T 92 Water Pollutant Total Monitoring Technical Specification HJ/T 353 Water Pollution Source Online Monitoring System Installation Technical Specification (Trial) HJ/T 354 Water Pollution Source Online Monitoring System Acceptance Technical Specification (Trial) Technical Specifications for Operation and Assessment of HJ/T 355 Water Pollution Source Online Monitoring System (Trial) HJ/T 356 Water Pollution Source Online Monitoring System Data Validity Discrimination Technical Specification (Trial) HJ/T 373 Technical Specifications for Quality Assurance and Quality Control of Fixed Pollution Source Monitoring (Trial) HJ/T 397 Fixed Source Exhaust Gas Monitoring Technical Specification HJ 630 Environmental Monitoring Quality Management Technical Guidelines HJ 819 General Guidelines for Self-Monitoring Technical Units of Sewage Units HJ 884 Guidelines for Strong Sources of Pollution Sources HJ 885 Pollution Sources Strong Accounting Technical Guide Steel Industry Announcement on Issue of Pollution Discharge Coefficient and Material Accounting Method for Calculating Pollutant Discharge (Protection of Environmental Protection Department No. 81 of 2017)

3 Terms and definitions

The following terms and definitions apply to this standard.

Electroplating the process of depositing a uniform, dense, well-bonded metal coating or alloy layer on the surface of a part by electrolysis. Including pre-plating treatment, Plated with metal and post-plated.

Chemical plating

The process of depositing a metal coating on the surface of a substrate by chemical methods, including catalytic plating, contact plating, and the like.

Anodized anodising

Taking metal parts as anodes, electrolysis in a certain electrolyte, forming a layer on the surface to have a certain function (such as protection, loading the process of the oxide film of the decorative or other function).

Chemical oxidation

In the absence of an external current, the metal part and the electrolyte containing oxidizing ability act to form an oxide film on the surface of the metal part.

4.1 General principles

The strong source accounting procedures include pollution source identification and pollutant determination, accounting method and parameter selection, source strength accounting, and accounting results.

For details, see HJ 884 for details.

4.2 Identification of pollution sources

Electroplating source identification should cover all sites, equipment or devices that may generate exhaust, wastewater, noise, solid waste contaminants, See Table 1.

The identification of pollution sources shall comply with the technical guidelines of HJ 2.1, HJ 2.2, HJ 2.3, HJ 2.4 and so on.

4.3 Determination of pollutants

The determination of electroplating pollutants of various pollution sources shall include pollutants in national and local emission standards such as GB 21900, as shown in Table 1. Correct Contaminants that may be produced in the production process but not included in national or local pollutant discharge standards may be based on environmental quality standards and other industries.

Environmental quality improvement requirements of standards, local people's governments or ecological environment authorities, based on raw and auxiliary materials and fuel use and production processes Analyze and determine.

4.4 Accounting method selection

The methods of calculating the source of electroplating pollution include the actual measurement method, the analogy method, the material balance algorithm and the pollution yield coefficient method.

Table 1. The source strength accounting method should be selected in order. If the priority method cannot be adopted, reasonable reasons should be given.

Table 1 Selection table of strong accounting methods for electroplating pollution sources