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

GB/T 45386.1-2025

**Electrochemical technical specification for industrial
wastewater treatment - Part 1: General**

工业废水电化学处理技术规范 第1部分：总则

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Table of Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 1 of GB/T 45386 Technical Specification for Electrochemical Treatment of Industrial Wastewater. Lower part.

- Part 1: General.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Chemical Standardization (SAC/TC63).

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Introduction

GB/T 45386 "Technical Specification for Electrochemical Treatment of Industrial Wastewater" is a recommended national standard for electrochemical industrial wastewater treatment technology.

Provide reference for the application of electrochemical technology in industrial wastewater treatment.

GB/T 45386 aims to establish requirements and specifications for electrochemical technology treatment of industrial wastewater and is intended to consist of 6 parts.

- Part 1: General. The purpose is to establish the overall principles and general requirements for electrochemical technology treatment of industrial wastewater.
- Part 2: Electrochemical oxidation. The purpose is to establish the application methods and parameter selection basis of electrochemical oxidation treatment technology.
- Part 3: Electrical floating. The purpose is to establish the application method and parameter selection basis of electrical floating treatment technology.
- Part 4: Electrocoagulation. The purpose is to establish the application method and parameter selection basis of electrocoagulation treatment technology.
- Part 5: Electro-Fenton. The purpose is to establish the application method and parameter selection basis of the electro-Fenton treatment technology.
- Part 6: Electrochemical reduction. The purpose is to establish the application method and parameter selection basis of electrochemical reduction treatment technology.

This document is the first part of GB/T 45386, which is for the standardization of industry terms, the classification and selection principles of various electrochemical technologies, and the operation Provides general technical guidance for the entire process of electrochemical technology application, including operation requirements, safety requirements, occupational health and environmental protection requirements, so as to improve the system The safety, stability and economic applicability of the system provide standardized support for the high-quality development of electrochemical treatment technology for industrial wastewater in China.

Technical Specifications for Electrochemical Treatment of Industrial Wastewater Part 1: General

1 Scope

This document specifies the selection principles, operation requirements, safety requirements, occupational health and environmental protection for electrochemical technology to treat industrial wastewater. Require.

This document is applicable to the treatment of industrial wastewater using electrochemical technology, and is also applicable to the treatment of municipal sewage and landfill leachate.

2 Normative references

GB 3096

GB 5085.7

GB/T 5226.1-2019

GB 8978

GB 14554

GB 15577

GB 18599

GB 18918

GB/T 21534

GB/T 23819

GB 29741-2013

GB 30871

GB/T 33000

GB 50016

GB 50052

GB 50054-2011

GB 50058

GB 50194

GB 51245

GB 55015

3 Terms and definitions

The terms and definitions defined in GB/T 21534 and the following apply to this document.

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