



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

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Emission standard of air pollutants for ironmaking industry

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Foreword

In order to implement the laws and regulations of "Environmental Protection Law of the People's Republic of China", "Air Pollution Prevention Law of the People's Republic of China", "State Council on Scientific Development and Strengthening Environmental Protection" etc. and "State Council on Preparation of Main Functional Area Planning", protect the environment, prevent pollution and promote the progress of ironmaking industry's production processes and pollution control technologies, this Standard is formulated.

This Standard specifies the emission limits, monitoring and control requirements of air pollutant concentration for ironmaking manufacturing enterprises. In order to promote the coordinated development of regional economy and the environment, promote the adjustment of economic structure and the transformation of economic growth mode, and guide the development of production processes and pollution control technologies of ironmaking industry, this Standard specifies the special emission limits of air pollutants.

The pollutant emission concentration in this Standard is mass concentration.

The relevant national pollutant emission standards are applicable to water pollutants, odor pollutants and environmental noise emitted by ironmaking manufacturing enterprises; the national solid waste pollution control standards are applicable to the

identification, treatment and disposal of discharged solid wastes.

This Standard is released for the first time.

From the date of implementation of this Standard, the emission control of air pollutants of ironmaking manufacturing enterprises shall be executed in accordance with the specifications of this Standard; the relevant specifications in "Standard of smoke and dust emission for industrial kiln and furnace" (GB 9078-1996) and "Standard of smoke and dust emission for industrial kiln and furnace" (GB 16297-1996) are not executed anymore.

For those pollutants that are not specified in this Standard, the local provincial governments can establish local pollutant emission standards; for those pollutants that have been specified in this Standard, it can establish local pollutant emission standards that are more strict than this Standard.

This Standard was formulated by the Technology Standard Office of the Ministry of Environmental Protection Science.

Drafting organizations of this Standard. Sinosteel Tiancheng Environmental Protection Science and Technology Co., Ltd., Institute for Environmental Standards of the Ministry
Emission standard of air pollutants for ironmaking industry

1 Scope

This Standard specifies the emission limits, monitoring and control requirements of air pollutants for ironmaking manufacturing enterprises or production facilities, and the implementation and supervision of the standard and other relevant specifications.

This Standard applies to the air pollutant emission management of existing ironmaking manufacturing enterprises or production facilities, and the environmental impact assessment, environmental protection facility design, environmental protection acceptance after completion and air pollutant emission management after launching into production of ironmaking industry's construction projects.

This Standard applies to the pollutant emission behavior permitted by law; the site selection of newly established pollution sources and the management of existing

pollution sources within the special protection area shall be in accordance with the relevant specifications of laws, regulations and rules such as "Air Pollution Prevention Law of the People's Republic of China", "Water Pollution Prevention Law of the People's Republic of China", "Marine Environmental Protection Law of the People's Republic of China", "Solid Waste Pollution Prevention Law of the People's Republic of China" and "Environmental Impact Assessment Law of the People's Republic of China".

2 Normative references

This Standard references the following documents or their terms.

GB/T 15432-1995 Ambient air - Determination of total suspended particulates - Gravimetric method

GB/T 16157-1996 The determination of particulates and sampling methods of gaseous pollutants emitted from exhaust gas of stationary source

HJ/T 42-1999 Stationary source emission - Determination of nitrogen oxide - Ultraviolet spectrophotometric method

HJ/T 43-1999 Stationary source emission - Determination of nitrogen oxid - N(1-naphthyl) - Ethylenediamine dihydrochloride spectrophotometric method

HJ/T 56-2000 Determination of sulphur dioxide from exhausted gas of stationary source - Iodine titration method

HJ/T 57-2000 Determination of sulphur dioxide from exhausted gas of stationary source - Fixed-potential electrolysis method

HJ/T 397-2007 Technical specifications for emission monitoring of stationary source

HJ/T 629-2011 Stationary source emission - Determination of sulphur dioxide - Non-dispersive infrared absorption method

"Pollution Automatic Monitoring and Management Measures" (State Environmental Protection Administration Order No. 28)

"Environmental Monitoring Management Measures" (State Environmental Protection Administration Order No. 39)

3 Terms and definitions

The following terms and definitions apply to this Standard.

3.1

Blast furnace ironmaking

The production process of using blast furnace to smelt pig iron. Blast furnace is the main part of the production process; the iron ores, fuels and fluxes that are loaded from the upper part move downward; air fuels are blew into the lower part to burn; a large amount of high-temperature reducing gas is generated and moved upward; after a series of physical-chemical processes such as heating, reduction, melting, slagging, carburizing and desulfurization, the furnace charge turns into liquid slag and pig iron.

3.2

Existing facility

Before the implementation of this Standard, the ironmaking manufacturing enterprises or production facilities that have been built and launched into production or the environmental impact assessment documents have been approved.

3.3

New facility

The new, rebuilt and expanded ironmaking industry production facility's construction projects of which the environmental impact assessment documents have been approved, from the date of implementation of this Standard.

3.4

Standard condition

The condition when the temperature is 273.15K and the pressure is 101325Pa. The air pollutant emission concentration specified in this Standard is on the basis of dry gases under standard conditions.

3.5

Blast furnace cast house

The place where blast furnace casts iron, including tap hole, main tap drain, sand hole,