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

**GB 13456-2012**

Replacing GB 13456-1992

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**[Including 2020XG1] Discharge standard of water pollutants for  
iron and steel industry**

钢铁工业水污染物排放标准

**(English Translation)**

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Republic of China**

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1 pH value 6~9 6~9 6~9 6~9 6~9 6~9

2 suspended matter 50 50 50 50 50 100

3 Chemical oxygen demand (COD<sub>Cr</sub>) 60 60 60 60 80 60.200

4 ammonia nitrogen 8 - 8 - 8 15

5 Total nitrogen 20 - 20 - 20 35

6 Total Phosphorus 1.0 - - 1.0 2.0

7 Petroleum 5 5 5 5 5 10

8 volatile phenol 0.5 - 0.5 - 1.0

9 total cyanide 0.5 - 0.5 - 0.5 0.5

10 Fluoride 10 - - 10 10 20

11 total iron a 10 - - 10 10

12 Total Zinc 2.0 - 2.0 - 2.0 4.0

13 total copper 0.5 - - 0.5 1.0

14 total arsenic 0.5 0.5 - 0.5 0.5

15 hexavalent chromium 0.5 - - - 0.5 0.5  
 16 total chromium 1.5 - - - 1.5 1.5  
 17 total lead 1.0 - 1.0 - - 1.0  
 18 total nickel 1.0 - - - 1.0 1.0  
 19 total cadmium 0.1 - - - 0.1 0.1  
 20 total mercury 0.05 - - - 0.05 0.05  
 1 pH value 6~9 6~9 6~9 6~9 6~9 6~9  
 2 suspended solids 30 30 30 30 30 100  
 3 Chemical oxygen demand (CODcr) 50 50 50 50 70 50.200  
 4 ammonia nitrogen 5 - 5 5 5 15  
 5 Total nitrogen 15 - 15 15 15 35  
 6 total phosphorus 0.5 - - - 0.5 2.0  
 7 Petroleum 3 3 3 3 3 10  
 8 volatile phenol 0.5 - 0.5 - - 1.0  
 9 total cyanide 0.5 - 0.5 - 0.5 0.5  
 10 Fluoride 10 - - 10 10 20  
 11 total iron a 10 - - - 10 10  
 12 Total Zinc 2.0 - 2.0 - 2.0 4.0  
 13 total copper 0.5 - - - 0.5 1.0  
 14 total arsenic 0.5 0.5 - - 0.5 0.5  
 15 hexavalent chromium 0.5 - - - 0.5 0.5  
 16 total chromium 1.5 - - - 1.5 1.5  
 17 total lead 1.0 1.0 1.0 - - 1.0  
 18 total nickel 1.0 - - - 1.0 1.0  
 19 total cadmium 0.1 - - - 0.1 0.1  
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 1 pH value 6~9 6~9 6~9 6~9 6~9 6~9  
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 4 ammonia nitrogen 5 - 5 5 5 8  
 5 total nitrogen 15 - 15 15 15 20  
 6 total phosphorus 0.5 - - - 0.5 0.5  
 7 Petroleum 1 1 1 1 1 3  
 8 volatile phenol 0.5 - 0.5 - - 0.5  
 9 total cyanide 0.5 - 0.5 - 0.5 0.5

- 10 Fluoride 10 - - 10 10 10  
 11 total iron a 2.0 - - - 2.0 10  
 12 total zinc 1.0 - 1.0 - 1.0 2.0  
 13 total copper 0.3 - - - 0.3 0.5  
 14 total arsenic 0.1 0.1 - - 0.1 0.1  
 15 hexavalent chromium 0.05 - - - 0.05 0.05  
 16 total chromium 0.1 - - - 0.1 0.1  
 17 total lead 0.1 0.1 0.1 - - 0.1  
 18 total nickel 0.05 - - - 0.05 0.05  
 19 total cadmium 0.01 - - - 0.01 0.01  
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## Foreword

To implement the Environmental Protection Law of the People's Republic of China, the Law of the People's Republic of China on Water Pollution Prevention and Control, and the Chinese People's Republic

Laws and Regulations such as the National Ocean Environmental Protection Law and the State Council's Decision on Implementing the Scientific Outlook on Development and Strengthening Environmental Protection

And the "Opinions of the State Council on the preparation of the national main functional zone plan" to protect the environment, prevent pollution, and promote the steel industry

The development of art and pollution control technologies, the development of this standard.

This standard specifies the water pollutant discharge limit, monitoring and monitoring requirements of steel production enterprises, excluding iron ore mining, coke

And the production process of ferroalloys.

This standard was first published in.1992.

The main contents of this revision.

-- Prescribed the limits for the discharge of water pollutants from existing enterprises and newly-built enterprises, and eliminated the regulations on the classification and management of sewage.

-- To promote the coordinated development of regional economy and environment, promote the adjustment of economic structure and the transformation of economic growth mode.

To guide the development direction of industrial production processes and pollution control technologies, this standard specifies the special emission limits for water pollutants.

The air pollutants (including odorous pollutants) emitted by steel production enterprises and the environmental noise shall be applied to the corresponding national pollutants.

Standards for the production; identification, treatment and disposal of solid wastes, applicable to national solid waste pollution control standards.

From the date of implementation of this standard, the "Water Industry Pollutant Emission Standards for Steel Industry" (GB 13456-1992) shall be abolished at the same time.

Local provincial people's governments may formulate local pollutant discharge standards for pollutants not specified in this standard;

The pollutants items that have been stipulated in this standard may be formulated with local pollutant discharge standards that are stricter than this standard.

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

This standard is mainly drafted by. Wuhan Iron and Steel Safety Research Institute of China Steel Group, Environmental Standards Institute of the Ministry of Environmental Protection.

This standard was approved by the Ministry of Environmental Protection on June 15,.2012.

This standard has been implemented since October 1,.2012.

This standard is explained by the Ministry of Environmental Protection.

Iron and steel industry water pollutant discharge standards

## **1 Scope of application**

This standard specifies the limits, monitoring and monitoring requirements for water pollutants in steel production enterprises or production facilities, as well as standards.

Implementation and supervision and other relevant regulations.

This standard applies to the management of water pollutant emissions from existing steel production enterprises or production facilities.

This standard applies to the environmental impact assessment of steel industry