



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

GB 31572-2015

Emission standard of pollutants for synthetic resin industry

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Foreword

To implement the laws and regulations such as "Environmental protection law of the People's Republic of China", "Water pollution prevention and control law of the People's Republic of China", "Air pollution prevention and control law of the People's Republic of China", to protect environment and prevent and control pollution, to promote technological progress and sustainable development in the synthetic resin industry, this standard is hereby developed.

This standard specifies the emission limits, monitoring, supervision and management requirements for water pollutants and air pollutants in industrial enterprises and their production facilities of synthetic resins (except for polyvinyl chloride resins).

For the synthetic resin industrial enterprise's emission of odorous pollutants and environmental noises, the corresponding national pollutant discharge standards apply. For the identification, treatment and disposal of solid wastes, the corresponding national solid waste pollution control standards apply. The supporting boiler and heat-transfer oil-furnace follows the "Emission standard of air pollutants for boilers".

This standard is the first release.

Starting from July 1, 2015 for the new facility, and from July 1, 2017 for the existing facility, the emission of water pollutant and air pollutant shall be controlled in accordance with the provisions of this standard, at the same time it will stop implementing the relevant provisions of the "Integrated wastewater discharge standard" (GB 8978-1996) and the "Comprehensive emission standard of air pollutants" (GB 16297-1996). Each region may, in accordance with the local environmental protection needs as well as the economic & technical conditions, implement this standard in advance after being approved by provincial people's government.

This standard provides the basic requirements for the control of emission of water pollutants and air pollutants in synthetic resin industry. For the items which are not specified in this standard, the local provincial people's government may formulate local pollutant discharge standards; for the items which have been specified in this standard, the local provincial people's government may formulate local pollutant discharge standards that are stricter than this standard. Where the requirements of environmental impact assessment or the discharge permit are stricter than this standard or local standard, it shall be implemented in accordance with the approved environmental impact assessment or discharge permit.

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

Drafting organizations of this standard. China Petroleum and Chemical Exploration and Design Association Environmental Protection Design Committee, China Tianchen Engineering Co., Ltd., Zhonglan Lianhai Design and Research Institute.

This standard was approved by the Ministry of Environmental Protection on April 3, 2015.

This standard is implemented from July 1, 2015.

For this standard, the Ministry of Environmental Protection shall be responsible for its interpretation.

Emission standard of pollutants
for synthetic resin industry

1 Scope

This standard specifies the emission limits, monitoring, supervision and management requirements for water pollutants and air pollutants from synthetic resin industrial enterprises and their production facilities (including the enterprises for synthetic resin processing and waste synthetic resin recycling and processing as well as their production facilities).

This standard is applicable to the management of emission of water pollutants and air pollutants in existing synthetic resin industrial enterprises or production facilities, as well as the environmental impact assessment of synthetic resin industrial construction projects, the design of environmental protection facilities, the completion environmental protection acceptance, and the management of emission of water pollutant and air pollutant after it is put into operation.

The monomer production equipment in the synthetic resin enterprise implements the "Emission standards for pollutant of petrochemical industry", the production equipment of polyvinyl chloride resin (PVC) implements the "Emission standards for emission of caustic soda and polyvinyl chloride industry".

This standard applies to the discharge of pollutants permitted by law. For the selection of location of the newly-established pollution sources and the management of the existing pollution source within the specially protected regions, it shall follow the relevant provisions of such laws, regulations and rules as the Water pollution prevention and control law of the People's Republic of China, the Air pollution prevention and control law of the People's Republic of

China, the Marine environmental protection law of the People's Republic of China, the Law of the People's Republic of China on environmental pollution by solid wastes, the Law of the People's Republic of China on environmental impact assessment.

2 Normative references

The contents of this standard refer to the following documents or their clauses.

For undated references, the latest version applies to this standard.

GB/T 6920 Water quality - determination of pH value - Glass electrode method

GB/T 7466 Water quality - Determination of total chromium

GB/T 7467 Water quality - Determination of chromium (6) - 1.5 Diphenylcarbazide spectrophotometric method

GB/T 7469 Water quality - Determination of total mercury - Potassium permanganate-potassium persulfate digestion method - Dithizone spectrophotometric method

GB/T 7470 Water quality - Determination of lead - Dithizone spectrophotometric method

GB/T 7471 Water quality - Determination of cadmium - Dithizone spectrophotometric method

GB/T 7475 Water quality - Determination of copper, zinc, lead and cadmium - Atomic absorption spectrophotometric method

GB/T 7484 Water quality - Determination of fluoride - Ion selective electrode method

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1

Synthetic resin

A kind of artificially synthetic polymer, which is divided into two types of