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

GB/T 15187-2017

Replacing GB/T 15187-2005

Measuring method for performances of wet dust collectors

湿式除尘器性能测定方法

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Table of Contents

1	Scope
2	Normative reference documents
3	Terms and definitions
7	Calculation of Performance Parameters of Wet Dust Collector
8	Report preparation requirements
15	Appendix B (informative) Preparation of SO

1 Scope

GB/T 15187-2017 is the Chinese national standard on measuring method for performances of wet dust collectors, in the field of environment and health protection, safety. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 12 May 2017 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2017. Classification: ICS 13.020.40, CCS J88. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the wet dust collector performance measurement items, measurement methods, calculation methods and report preparation requirements. This standard is applicable to the performance measurement of wet dust collector and the performance of new product development and development.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document. Determination of particulate matter and sampling method of gaseous pollutants in exhaust gas of fixed pollution sources GB/T 16157 HJ/T

42 Determination of nitrogen oxides in the exhaust gas of fixed sources - Ultraviolet spectrophotometric method HJ/T

43 Determination of nitrogen oxides in fixed exhaust gases - Naphthylenediamine hydrochloride spectrophotometric method

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Wet dust collector wetdustcollector; wetscrubber A precipitator that separates dust from dust-laden gas by the washing of liquid (usually water).

3.2 Hygroscopic agent A solid substance capable of absorbing gaseous and liquid water.

3.3 Gas humidity gashumidity Characterize the amount of moisture in the gas, available moisture content, moisture content, absolute humidity and relative humidity and so on.

3.4 Moisture content of moisture The volume fraction of the moisture content in the moisture, expressed in%.

3.5 Moisture content humidityratio The amount of water vapor in the humid gas coexisting with one kilogram of dry air in grams per kilogram (g/kg).

3.6 Absolute humidity absolutehumidity The mass of water vapor per unit volume of moisture contained in grams per cubic meter (g/m³). Can be converted to the standard state (pressure 101325Pa, temperature 0 °C) under the unit volume of moisture contained in the quality of water vapor, also Can be converted to minus the water after the standard state of the unit volume of dry gas contained in the quality of water vapor.

8 Report preparation requirements

14 Appendix A (informative) Saturated water vapor pressure at different temperatures pv