UDC 662.613.13:543.275.3:531.717.1

JIS

JAPANESE INDUSTRIAL STANDARD

Measuring Method for Particle-Size Distribution of Dusts in Flue Gas

JIS K 0302–1989

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by

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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Measuring Method for Particle-Size Distribution of Dusts in Flue Gas

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1. Scope

This Japanese Industrial Standard specifies measuring method for particle-size distribution of dusts in flue gas, in the chimney, flue and duct, hereafter referred to as the "duct", in accordance with the mass-base.

Remark: The numerical values and units given in { } in this Standard are based on the conventional units and are appended for informative reference.

2. Common Items

The common items shall be in accordance with JIS Z 8808.

3. Definitions

For the purposes of this Standard, the following definitions apply. Other terms and definitions are in accordance with JIS B 9909, JIS Z 8808 and JIS Z 8901.

(1) dust Solid particles contained in a gas of which the adhered water is removed by drying.

(2) particle size The diameter of a particle of which the aerodynamic behavior is equivalent to a spherical particle having a specific gravity of 1.

(3) particle-size distribution The proportion of the mass of particles belonging to respective particle-size class to the mass of the whole particle groups.

(4) inertia-collision method A method for separating and collecting the particles from the air stream by colliding the particles against a substance by utilizing the force of inertia which the particles have when they are in motion.

(5) impactor A device for separating the particles from the air stream by colliding the particles against a collecting plate by using the inertia-collision method.

Applicable Standards:

JIS B 9909-Expression of the Specification for Dust Collectors

JIS K 0901-Filters for Collecting Airborne Particulate Matters

JIS Z 8808-Methods of Measuring Dust Concentration in Flue Gas

JIS Z 8901-Dusts and Aerosols for Industrial Testing