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**Test method of filter media for dust
collection Part 1: Filter efficiency**

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from The Association of Powder Process Industry and Engineering, Japan (APPIE)/Japanese Standards Association (JSA), with a draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

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Test method of filter media for dust collection Part 1 : Filter efficiency

Introduction For the purpose of maintaining the standards related to the filter media for dust collection, this Japanese Industrial Standard is established as the standard of test method applicable to the product standard, **JIS Z 8908**.

1 Scope This Standard specifies the test methods for the filter efficiency of woven fabrics and non-woven fabric for dust collection used for dry filtration dust collectors.

2 Normative references The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 9909 *Expression of the specification for dust collectors*

JIS Z 8122 *Contamination control—Terminology*

JIS Z 8901 *Test powders and test particles*

JIS Z 8908 *Filter fabrics for dust collection*

3 Definitions For the purposes of this Standard, the definitions given in **JIS B 9909** and **JIS Z 8908** and the following definitions apply.

- a) **filter medium** woven fabrics and non-woven fabrics to be used for filtration
- b) **residual pressure drop** pressure drop of gas passing through filter medium immediately after pulse jet dust-removal
- c) **residual dust mass** dust mass left in filter medium immediately after pulse jet dust removal
- d) **inlet dust concentration** concentration of dust contained in gas immediately before passing through filter medium
- e) **outlet dust concentration** concentration of dust contained in gas immediately after passing through filter medium
- f) **filtration velocity** face velocity of gas passing through filter medium
- g) **dust collection efficiency** the ratio (percentage) of concentration of dust collected by filter medium (value obtained by subtracting outlet dust concentration from inlet dust concentration) to inlet dust concentration
- h) **filtration cycle time** an interval of pulse jet dust removal