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JIS

JAPANESE INDUSTRIAL STANDARD

Test powders and test particles

JIS Z 8901–1995

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JAPANESE INDUSTRIAL STANDARD
JIS Z 8901: 1995
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June, 2001

ERRATA

Page 1, the last line except one

Error: ···the size expressed with resistance

Correct: ···the sphere equivalent value

Page 16, Sub-clause **5.1.2 (3)**

Error: ···the testing method of electric resistance
Correct: ···the electro-sensing zone method

Page 17
Replace the Table 22 to the following table:

Table 22. Specific surface area of white fused alumina

Class	Specific surface area m^2/g
No.1	4.2 to 4.5
No.2	1.4 to 1.7
No.3	0.65 to 0.9
No.4	0.35 to 0.45
No.5	0.10 to 0.20
No.6	0.05 to 0.10

Remarks: This erratum is for correcting the first edition of this Standard.

Japanese Standards Association

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JAPANESE INDUSTRIAL STANDARD J I S

Test powders and test particles Z 8901-1995

1. Scope This Japanese Industrial Standard specifies both: the test powders(1) which can be used for the dust separation test of a dust separator or an air filter, for the function test of various testers, and for wear test; and the test particles(2) which can be used for the calibration of light-scattering automatic particle counter, the test of particle collecting rate for super high performance air filter, and the calibration of an automatic counter of particulate materials floating in air.

Notes (1) Test powders Powders are classified into test powders 1 and test powers 2, and powders 1 is for the separation test of a dust separator or air filter, for the function test of various testers, has a constant characteristics, and has typical characteristics of general powder.

Test powders 2 is for the verification of apparatus relating to powder and for the operating function test and the wear test of various testers against powders, has a constant characteristics, and has typical characteristics of general powder.

(2) Test particles Test particles are classified into test particles 1 and test particles 2, and test particles 1 is polystyrene group particles. Particles 1 mainly consists of styrene, and is monodispersed system which has the same sized solid particles and synthesized by emulsion polymerization. Usually, they are on the market as the type of concentrated suspension and are diluted with ultra pure water to make suitable concentration. Otherwise, they are sprayed or mixed with dry air to evaporate water, and prepared for fine particles for test.

Test particles 2 is fine particles for test which has been generated from dioctyl phthalate and stearic acid using an aerosol generator.

Remarks: The standards cited in this Standard are listed in Attached Table 1.

2. Definitions The definition of terms in this Standard shall be as follows except those defined in JIS Z 8103 and JIS Z 8122.

(1) particle size It is expressed by any of, the sieve opening of a test sieve measured by screening method, Stokes' equivalent diameter tested by sedimentation method, the circular equivalent diameter tested by a microscope method, or the sphere equivalent diameter tested by light scattering method, otherwise the size expressed with resistance tested by electric resistance testing method. It is also called grain size.