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(AIST/JSA)

**Test method for adsorption performance
of attenuation layer — Part 1: Batch test**

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Foreword

This Japanese Industrial Standard has been established by the Minister of Land, Infrastructure, Transport and Tourism through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by National Institute of Advanced Industrial Science and Technology (AIST)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act.

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JIS A 1291 series consists of the following 2 parts under the general title *Test method for adsorption performance of attenuation layer* — :

Part 1 : Batch test

Part 2 : Column test

Test method for adsorption performance of attenuation layer — Part 1: Batch test

1 Scope

This Japanese Industrial Standard specifies the batch test method for determining the adsorption performance of sorbents and attenuation layer materials used for attenuation layer method, which are applied as a countermeasure against the leaching of naturally occurring heavy metals and other substances from excavated soil and rock.

2 Normative references

Part or all of the provisions of the following standards, 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 A 0207 *Technical terms for geotechnical engineering*

JIS A 1203 *Test method for water content of soils*

JIS K 0102-2 *Testing methods for industrial water and industrial wastewater — Part 2: Inorganic anions, ammonium ion, organic nitrogen, total nitrogen and total phosphorus*

JIS K 0102-3 *Testing methods for industrial water and industrial wastewater — Part 3: Metals*

JIS K 0557 *Water used for industrial water and wastewater analysis*

JIS K 8180 *Hydrochloric acid (Reagent)*

JIS K 8576 *Sodium hydroxide (Reagent)*

JIS Z 8801-1 *Test sieves — Part 1: Test sieves of metal wire cloth*

JIS Z 8802 *Methods for determination of pH of aqueous solutions*

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions, and those given in JIS A 0207 apply.

3.1

naturally occurring heavy metals and other substances

hazardous substances naturally present in soils

Note 1 to entry “Hazardous substances” refers to eight inorganic substances: cadmium (Cd), hexavalent chromium [Cr(VI)], mercury (Hg), selenium (Se), lead (Pb), arsenic (As), fluorine (F), and boron (B).