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Equipment for water supply service—Test methods of effect to water quality

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee, as the result of proposal for revision of Japanese Industrial Standard submitted by Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS S 3200-7**: 2000 is replaced with this Standard.

JIS S 3200 consists of the following 7 parts under the general title *Equipment for water supply service*:

Part 1: Test methods of hydrostatic pressure

Part 2: Test method of low temperature resistant

Part 3: Test method of water hammer

Part 4: Test method of prevention from back current

Part 5: Test methods of destruction by vacuum pressure

Part 6: Test methods of durability

Part 7: Test methods of effect to water quality.

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In the event of any doubts arising as to the contents, the original JIS is to be the final authority.

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Equipment for water supply service— Test methods of effect to water quality

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- 1 **Scope** This Japanese Industrial Standard specifies test methods of evaluating effect to water quality applicable to such equipment for water supply service as valves which include faucets, pressure reducing valves and relief valves, and pipes, fittings, piping units for dwellings, drinking-water coolers, electric storage tank water heaters, gas burning water heaters, oil burning water heaters.
- **2** Normative references The standards listed in attached table 1 contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards (including amendments) shall be applied.
- **3 Definitions** For the purpose of this Standard, the following definitions shall apply:
- a) leachate Water specially prepared for performing the test.
- b) **equipment test** A test in which the elution operation is performed with leachate on equipment for water supply service.
- c) **part test** A test in which the elution operation is performed with leachate on parts in contact with drinking water in the equipment for water supply service.
- d) **material test** A test in which the elution operation is performed with leachate on intermediate products (materials) in contact with drinking water in the equipment for water supply service. However, it cannot apply when materials are metals.
- e) **blank test** A test in which the operation of the equipment test, part test or material test is performed with leachate and glassware instruments without samples.
- f) **sample liquid** The solution obtained by performing the elution treatment in the equipment test, part test or material test.
- g) **blank test liquid** The solution obtained by performing the elution treatment in the blank test.
- h) test water The solution separated from the sample liquid for the analysis.
- i) **test liquid** The test water treated in the process of analysis operation.
- j) contact surface area ratio of equipment under test, part under test or material under test. The value obtained by dividing "the surface area of the equipment under test, part under test or material under test of which the portion is in contact with the leachate" by "the leachate volume".
- k) contact surface area ratio of equipment to be evaluated, part to be evaluated or material to be evaluated. The value obtained by dividing "the surface area of the equipment, part or material to be evaluated on the result of the part test or material test, of which the portion is actually in contact with drinking water" by "the volume of the relevant equipment, part or material to be evaluated.