

JIS

JAPANESE INDUSTRIAL STANDARD

Method of Test for Unit Weight
of Aggregate and Solid
Content in Aggregate

JIS A 1104—1976

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In the event of any doubt arising, the original
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JAPANESE INDUSTRIAL STANDARD

J I S

Method of Test for Unit
Weight of Aggregate and Solid
Content in AggregateA 1104-1976
(Reaffirmed: 1980)1. Scope

This Japanese Industrial Standard specifies the method of test for unit weight ⁽²⁾ and solid content in aggregates ⁽¹⁾ used for concrete.

Notes ⁽¹⁾ These include lightweight aggregates for structural concrete.

⁽²⁾ The weight referred to in this standard means the mass.

2. Test Appliances

2.1 The balance used shall have a precision of within 0.2 % of the total quantity of the sample.

2.2 The container used shall be a metal cylinder with its inner surface finished by machining and be watertight and sufficiently rigid. The container shall be provided with handles to facilitate handling.

The container shall be selected from those shown in the following table according to the maximum size of the aggregate:

Maximum size of aggregate mm	Container		Approximate volume ℓ
	Inner diameter cm	Internal height cm	
10 or smaller	14	13	2
Over 10 to 40 incl.	24	22	10
Over 40	35	31	30

The volume of the container shall be calculated by accurately measuring the weight of water required to fill the container.

2.3 The tamping rod used shall be a round steel rod of 16 mm in diameter and 50 cm in length with a hemispherical end.

3. Sample

3.1 The sample shall be taken so as to represent the aggregate to be tested and be reduced to about the required quantity by the method of quartering or by use of a sample splitter. The reduced quantity shall be not smaller than 2 times the volume of the container. The sample shall be in the air-dried condition or absolute dry condition.

Applicable Standards: See page 4.