
Methods of testing concrete

Method 5: Determination of mass per unit volume of freshly mixed concrete

1 SCOPE

This Standard sets out the method for determining the mass per unit volume of freshly mixed concrete that is in the plastic state.

The Standard provides for the compacting of the sample either by rodding or by vibration.

NOTES:

- 1 The result obtained may be dependent on the compaction method used.
- 2 This Standard may involve hazardous materials, operations, and equipment. The Standard does not purport to address all of the safety problems associated with its use. The user of this Standard should establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.
- 3 Data on the precision of the test method were not available at the time of publication. This information will be included when available.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

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| 1012 | Methods of testing concrete |
| 1012.1 | Method 1: Sampling of fresh concrete |
| 1012.2 | Method 2: Preparation of concrete mixes in the laboratory |
| 1012.3.1 | Method 3.1: Determination of properties related to the consistence of concrete—Slump test |
| 1012.4.1 | Method 4.1: Determination of air content of freshly mixed concrete—Measuring reduction in air pressure in chamber above concrete |
| 1012.8 | Method 8: Method for making and curing concrete compression, indirect tensile and flexure test specimens, in the laboratory or in the field |

3 APPARATUS

3.1 Measure

3.1.1 General

The measure shall be made of metal not less than 3 mm thick, and shall be watertight and sufficiently rigid to maintain its shape with rough usage. The inside surface shall be smooth and free from corrosion and the rim of the measure shall be machined to a plane surface perpendicular to the axis of the cylinder. The measure shall be provided with carrying handles.

The diameter of the measure shall be between 0.75 and 1.25 times the height.