AS 1012.12.2-1998 (R2014) Methods of testing concrete. Method 12: Determination of mass per unit volume of hardened concrete - Part 2: Water displacement method

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Abbreviation
AS 1012.12.2-1998 (R2014)
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Description

This Standard sets out a method for determining the mass per unit volume of hardened concrete by a method involving weighing the specimen in a specified moisture condition and determining its volume by weighing the saturated specimen in water and also in air.

Scope

This Method is applicable to either regular or irregular shaped specimens.

This Method is also applicable to capped specimens, provided the mass per unit volume of the cap does not differ from that of the specimen by more than 25 percent and the cap complies with the requirements of AS 1012.9.

NOTES:

1. Care should be taken to ensure that specimens are representative of the concrete mass, particularly if irregular shaped pieces of concrete are tested. If specimens have a volume less than a 100 x 200 mm standard cylinder, the results may not be as reliable.

2. Where appropriate, surface voids should be sealed or wrapped to ensure account is taken of their effect, e.g. poor compaction.
3. For general procedures and precautions designed to promote safety of persons and property in laboratory operations (see AS/NZS 2243.1).
4. This Standard may involve hazardous materials, operations, and equipment. This Standard does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of this Standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

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