Australian Standard®

# Methods of testing concrete

# Method 2: Preparation of concrete mixes in the laboratory

## PREFACE

This edition of this Standard was prepared by the Standards Australia Committee on Methods of Testing Concrete as part of its ongoing program to revise the AS 1012 series of Standards on the testing of concrete. It supersedes AS 1012.2—1983.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

## CONTENTS

# METHOD

**1 SCOPE** This Standard sets out a method for the preparation of concrete mixes in the laboratory.

**2 REFERENCED DOCUMENTS** The following documents are referred to in this Standard:

AS
1012 Methods of testing concrete
1012.1 Method 1: Method for sampling fresh concrete
1012.3 Method 3: Methods for the determination of properties related to the consistence of concrete
1012.4 Method 4: Methods for the determination of air content of freshly mixed concrete
1012.5 Method 5: Method for determination of mass per unit volume of freshly mixed concrete
1012.6 Method 6: Method for the determination of bleeding of 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
1012.13 Method 13: Determination of the drying shrinkage of concrete for samples prepared in the field or in the laboratory
1012.16 Method 16: Method for the determination of creep of concrete cylinders in compression (metric units)
1012.17 Method 17: Methods for the determination of the static chord modulus of elasticity and Poisson's ratio of concrete specimens
1012.18 Method 18: Method for the determination of setting time of fresh concrete, mortar and grout by penetration resistance (metric units)

1141 Methods for sampling and testing aggregates
1141.3 Method 3: Sampling of aggregates and rock
1141.6 Method 6: Bulk density and water absorption of coarse aggregate

1478 Chemical admixtures for concrete

2758 Aggregates and rock for engineering purposes
2758.1 Part 1: Concrete aggregates

3582 Supplementary cementitious materials for use with portland cement
3582.1 Part 1: Fly ash
3582.2 Part 2: Slag—Ground granulated iron blast-furnace

3972 Portland and blended cements

**3 DEFINITIONS** For the purpose of this Standard, the definitions below apply.

**3.1 Absorption**—as follows:

(a) *Fine aggregates*—in accordance with the requirements for bulk density and water absorption of fine aggregate of AS 1141.

(b) *Coarse aggregates*—in accordance with the requirements for bulk density and water absorption of coarse aggregate of AS 1141.

**3.2 Cement** Portland or blended cement complying with AS 3972 or a mixture of either or both of these with fly ash complying with AS 3582.1, or with ground slag complying with AS 3582.2, or both. Other cementitious material may also be incorporated.