AS 1012.25.1:2020

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Methods of testing concrete

Method 25.1: Determination of the fibre content of plastic state concrete (wash-out test)

AS 1012.25.1:2020

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Austroads
Cement Concrete & Aggregates Australia
Concrete Institute of Australia
National Association of Testing Authorities Australia
Victorian Construction Materials Laboratories Association

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Preface

This Standard was prepared by the Standards Australia Committee BD-042, Methods of Testing Concrete.

The objective of this Standard is to detail the method for determining the fibre content of plastic state concrete using a wash-out method.

This is the first publication of this test method which has been derived from existing VicRoads Test Method RC 377.01 (March 2019), Copyright © 2019 VicRoads, Melbourne, Victoria.

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1 Scope

This Standard sets out the method for determining the fibre content of concrete that is in the plastic state, by using a wash-out process.

A sample is taken from a concrete load, or from concrete made in the laboratory and compacted into a measure of known volume. The steel or synthetic fibres are washed out, separated and dried. The fibre content is determined from the mass of fibre and the measured volume of concrete.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document:

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS 1012.1, *Methods of testing concrete, Method 1: Sampling of concrete*

AS 1012.2, *Methods of testing concrete, Method 2: Preparing concrete mixes in the laboratory*

3 Terms and definitions

For the purpose of this document, the terms and definitions given in all referenced AS 1012 series documents and those below apply.

3.1
may
indicates the existence of an option

3.2
shall
indicates that a statement is mandatory

3.3
should
indicates a recommendation

4 Apparatus and materials

4.1 Measure

4.1.1 General

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

NOTE The measure should be provided with carrying handles.

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