ISO 23523:2021-03 (E)

Test methods for discrete polymer fibre for fibre-reinforced cementitious composites

Contents

Page

Foreword ..... **iv**

Introduction ..... **v**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Symbols and abbreviated terms **2**

5 Test methods for determining fibre diameter **3**
5.1 Consecutive fibre method 3
5.2 Chopped fibre method 3
5.3 Test report 4

6 Test method for determining fibre length **4**
6.1 Procedure 4
6.2 Test report 4

7 Test method for determining tensile strength and initial modulus of elasticity **5**
7.1 Testing machine 5
7.2 Sampling of specimens 5
7.3 Procedure 5
7.4 Tensile strength 6
7.5 Initial modulus of elasticity 6
7.6 Test report 7

8 Test method for determining fibre density **7**
8.1 Procedure 7
8.2 Test report 7

9 Test method for determining thermal properties of fibre **8**
9.1 Melting point 8
9.2 Test report 8

10 Test method for determining moisture content of fibre **8**
10.1 Procedure 8
10.2 Test report 9

11 Test method for determining alkaline durability **9**
11.1 General 9
11.2 Apparatus and reagents 9
11.3 Sampling and conditioning of test specimens 10
11.4 Preparation of alkaline solution 10
11.5 Exposure of alkaline condition 10
11.6 Tensile test procedure 11
11.7 Calculations 11
11.8 Test report 11

Bibliography **13**