



BSI Standards Publication

Suitability of non-metallic materials and products for use in contact with water intended for human consumption with regard to their effect on the quality of the water

Part 2: Methods of test – Section 2.1: Samples for testing

Publishing and copyright information

The BSI copyright notice displayed in this document indicates when the document was last issued.

© The British Standards Institution 2014

Published by BSI Standards Limited 2014

ISBN 978 0 580 83817 0

ICS 13.060.20

The following BSI references relate to the work on this document:

Committee reference EH/6

Draft for comment 13/30287567 DC

Publication history

First published 31 May 1988

Second edition, 29 June 1990

Third edition, 15 December 1996

Fourth edition, 15 May 2000

Fifth (present) edition, 30 June 2014

Amendments issued since publication

Date	Text affected
------	---------------

Contents

Foreword *ii*

1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Apparatus	4
5	Procedure	5
6	Factory made products	6
7	Site-applied materials and products	13
8	Sample description	19
9	Reporting	19

Bibliography 22

List of figures

Figure 1 – The radius of the largest sphere that will fit in the thickest section of a rubber based test material or product 3

List of tables

Table 1 – Test container calibration mark 5

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 22, an inside back cover and a back cover.

Foreword

Publishing information

This part of BS 6920 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 30 June 2014. It was prepared by Technical Committee EH/6, *Effects of materials on water quality*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

This part of BS 6920 supersedes BS 6920-2.1:2000+A3:2008, which is withdrawn.

Relationship with other publications

The following parts and sections of BS 6920 have been published.

- Part 1: *Specification*;
- Part 2: *Methods of test*;
 - Section 2.1: *Samples for testing*;
 - Section 2.2: *Odour and flavour of water*;
 - Subsection 2.2.1: *General method of test*;
 - Subsection 2.2.2: *Method of testing odours and flavours imparted to water by multi-layered hoses and composite pipes and tubes*;
 - Subsection 2.2.3: *Method of testing odours and flavours imparted to water by hoses for conveying water for food and drink preparation*;
 - Section 2.3: *Appearance of water*;
 - Section 2.4: *Growth of aquatic microorganisms test*;
 - Section 2.5: *The extraction of substances that may be of concern to public health*;
 - Section 2.6: *The extraction of metals*;
- Part 3: *High temperature tests*;
- Part 4: *Method for the GCMS identification of water leachable organic substances*.

Information about this document

This is a full revision of the standard, and introduces the following principal changes:

- New definitions for the terms multi-layered product (see 3.2), inradius (3.5), thermoplastic material (3.6), thermosetting material (3.7), cure (3.8), solvent cement (3.10) and porous seal coat (3.11) have been provided.
- The specification of metal couplings has been changed (see 4.2.2).
- A new requirement for porous seal coats has been added (see 6.13.2).
- New requirements for *in-situ* applied pipe linings and coatings (see 7.2), resin anchors (7.7) and solvent cements (7.8) have been added.
- Reporting requirements have been amended (see Clause 9).

Hazard warnings

WARNING. This British Standard calls for the use of substances and/or procedures that can be injurious to health if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations relating to health and safety at any stage.

Use of this document

It has been assumed in the preparation of this part of BS 6920 that the execution of its provisions will be entrusted to appropriately qualified and experienced people, for whose use it has been produced.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its methods are expressed as a set of instructions, a description, or in sentences in which the principal auxiliary verb is "shall".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

Currently in preview, click buy full version

1 Scope

This section of BS 6920 describes the preparation of test samples of all types of non-metallic (including cementitious) materials and products, including water fittings and components, pipes and materials used in coating, protection, lining, jointing, sealing and lubrication, for their suitability for use in contact with water intended for human consumption, with regard to their effect on the quality of the water.

This standard does not cover metallic materials and products, unless they will be used in conjunction with a non-metallic material, e.g. coating.

NOTE Under the relevant National Regulations [1] to [7], the National Regulator may specify additional provisions in some cases and will assess the significance of the results obtained.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 864-2, *Capillary and compression tube fittings for copper and copper alloy – Part 2: Specification for capillary and compression fittings for copper tubes*

BS 887:1982, *Specification for precision vernier callipers*

BS 4372:1968, *Specification for engineer's steel measuring rules*

BS 6920-1:2014, *Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water – Part 1: Specification*

BS 6920-2.2.2, *Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water – Part 2: Methods of test – Section 2.2: Odour and flavour of water – Subsection 2.2.2: Method of testing odours and flavours imparted to water by multi-layered hoses and composite pipes and tubes*

BS 6920-2.2.3, *Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water – Part 2: Methods of test – Section 2.2: Odour and flavour of water – Subsection 2.2.3: Method of testing odours and flavours imparted to water by hoses for conveying water for food and drink preparation*

BS 6920-2.3, *Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water – Part 2: Methods of test – Section 2.3: Appearance of water*

BS 6920-2.4, *Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water – Part 2: Methods of test – Section 2.4: Growth of aquatic microorganisms test*

BS 6920-2.5, *Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water – Part 2: Methods of test – Section 2.5: The extraction of substances that may be of concern to public health*

BS 6920-2.6, *Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water – Part 2: Methods of test – Section 2.6: The extraction of metals*