

Concrete — Release of regulated dangerous substances into soil, groundwater and surface water — Test method for new or unapproved constituents of concrete and for production concretes

ICS 91.100.30

National foreword

This Published Document is the UK implementation of CEN/TR 15678:2008.
The UK participation in its preparation was entrusted by Technical Committee B/516, Cement and lime, to Subcommittee B/516/12, Sampling and testing.
A list of organizations represented on this committee can be obtained on request to its secretary.
This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 30 May 2008

© BSI 2008

ISBN 978 0 580 58694 1

Amendments/corrigenda issued since publication

Date	Comments

English Version

**Concrete - Release of regulated dangerous substances into soil,
groundwater and surface water - Test method for new or
unapproved constituents of concrete and for production
concretes**

Béton - Relargage de substances dangereuses
réglementées dans les sols, les eaux souterraines et les
eaux de surface - Méthode d'essai des constituants du
béton, nouveaux ou non-approuvés, et des formules de
béton

Beton - Freisetzung regulierter gefährlicher Stoffe in den
Boden, das Grundwasser und das Oberflächenwasser -
Testmethode für neue oder noch nicht zugelassene
Bestandteile von Beton und für Betone

This Technical Report was approved by CEN on 1 October 2007. It has been drawn up by the Technical Committee CEN/TC 51.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

Page

Foreword.....	3
Introduction	4
1 Scope	10
2 Normative references	10
3 Terms and definitions	11
4 Principle	12
5 Reagents	13
6 Apparatus	13
7 Reference concrete.....	13
8 Sampling of constituents	14
9 Control mix, test mixes and test pieces	15
10 Preparation of concrete test pieces	17
11 Extraction procedure	18
12 Assessment of unapproved constituents	18
13 Analysis	19
14 Calculation of results	19
15 Expression of results	20
16 Test report	20
17 Test performance (precision estimates and uncertainty)	23
Annex A (normative) Testing for release of (regulated) dangerous substances from pre-hardened concrete products formed in the factory	24
Annex B (informative) Testing for release of (regulated) dangerous substances from hardened test pieces representative of fresh wet concretes or pre-packaged concretes	27
Annex C (informative) Principles of laboratory concrete mix design to be applied for the assessment of new/unapproved constituents of concrete	30
Bibliography	35