

Unbound and hydraulically bound mixtures —

Part 7: Cyclic load triaxial test for unbound mixtures

The European Standard EN 13286-7:2004 has the status of a
British Standard

ICS 93.080.20

National foreword

This British Standard is the official English language version of EN 13286-7:2004.

The UK participation in its preparation was entrusted by Technical Committee B/510, Road materials, to Subcommittee B/510/4, Cementitious bound materials, unbound granular materials, waste materials and marginal materials, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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 does not of itself confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 24 February 2004

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 37 and a back cover.

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

Amendments issued since publication

Amd. No.	Date	Comments

© BSI 24 February 2004

ISBN 0 580 43473 7

English version

Unbound and hydraulically bound mixtures - Part 7: Cyclic load triaxial test for unbound mixtures

Graves traitées aux liants hydrauliques et graves non traitées - Partie 7: Essai triaxial sous charge cyclique pour mélanges sans liant hydraulique

Ungebundene und hydraulisch gebundene Gemische - Teil 7: Dreiaxialprüfung mit zyklischer Belastung für ungebundene Gemische

This European Standard was approved by CEN on 14 November 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, 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.....	4
1 Scope	6
2 Normative references	6
3 Symbols and abbreviations	7
4 Principle	8
4.1 Procedure for the study of the resilient behaviour	8
4.2 Procedure for the study of permanent deformations.....	8
4.3 Multi-stage procedure	8
5 Apparatus	8
5.1 General.....	8
5.2 Triaxial pressure chamber ('cell').....	9
5.2.1 General.....	9
5.2.2 Chamber medium.....	9
5.2.3 Top and bottom plate	9
5.3 Loading device.....	9
5.3.1 Method A – Variable confining pressure	9
5.3.2 Method B - Constant confining pressure	9
5.4 Pressure transducers	10
5.5 Axial load transducer	10
5.6 Response measuring equipment	10
5.7 Other equipment	10
5.8 Specimen cap and base	10
5.9 Porous discs.....	10
5.10 Semi-permeable filters	11
5.11 Membrane	11
5.12 Specimen-size measurement devices	11
5.13 Balance	11
5.14 Testing environment.....	11
6 Preparation	11
6.1 General.....	11
6.2 Set up of specimen and deformation measuring equipment	12
7 Test procedures for the study of the resilient behaviour	12
7.1 Principle	12
7.2 Method A: Variable confining pressure	12
7.2.1 General.....	12
7.2.2 Conditioning of the specimen	12
7.2.3 Repeated loading for resilient testing	13
7.3 Method B: Constant confining pressure	14
7.3.1 General.....	14
7.3.2 Conditioning of the specimen	14
7.3.3 Repeated loading for resilient testing	15
8 Test procedures for the study of permanent deformation	17
8.1 Principle	17
8.2 Single Stage loading.....	17
8.2.1 General.....	17
8.2.2 Method A: Variable confining pressure	17
8.2.3 Method B : Constant confining pressure	17
8.3 Multi-stage loading	18