

Bitumen and bituminous binders - Determination of the tensile properties of modified bitumen by the force ductility method

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EESTI STANDARDI EESSÕNA

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<p>Käesolev Eesti standard EVS-EN 13589:2008 sisaldab Euroopa standardi EN 13589:2008 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 24.04.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 05.03.2008.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13589:2008 consists of the English text of the European standard EN 13589:2008.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 24.04.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 05.03.2008.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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English Version

Bitumen and bituminous binders - Determination of the tensile properties of modified bitumen by the force ductility method

Bitumes et liants bitumineux - Détermination des caractéristiques de traction des bitumes modifiés par la méthode de force-ductilité

Bitumen und bitumenhaltige Bindemittel - Bestimmung der Streckeigenschaften von modifiziertem Bitumen mit dem Kraft-Duktilitäts-Verfahren

This European Standard was approved by CEN on 21 January 2008.

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Foreword

This document (EN 13589:2008) has been prepared by Technical Committee CEN/TC 336 "Bituminous binders", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2008, and conflicting national standards shall be withdrawn at the latest by September 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13589:2003.

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1 Scope

This European Standard specifies a method for determining the tensile properties of a bituminous binder, in particular those of polymer-modified bitumens by means of a force ductility test.

The work done during the force ductility test is a criterion for assessing the quality of these materials.

WARNING — The use of this European Standard may involve hazardous materials, operations and equipment. This European Standard does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of this European Standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2 Normative references

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

EN 58, *Bitumen and bituminous binders – Sampling bituminous binders*

EN 1431, *Bitumen and bituminous binders – Determination of recovered binder and oil distillate from bitumen emulsions by distillation*

EN 12594, *Bitumen and bituminous binders – Preparation of test samples*

EN 13074, *Bitumen and bituminous binders – Recovery of binder from bitumen emulsions by evaporation*

EN 13398, *Bitumen and bituminous binders – Determination of the elastic recovery of modified bitumen*

EN 13703, *Bitumen and bituminous binders – Determination of deformation energy*

EN 14895, *Bitumen and bituminous binders - Stabilisation of binder from bituminous emulsion or from cut-back and fluxed bituminous binders*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 tensile force

force undergone by a specimen subjected to extension, expressed in N

3.2 elongation

increase in length of a specimen, expressed in metres

NOTE Elongation is also expressed in % from the initial length. It is calculated as $[(\text{new length} - \text{initial length}) / \text{initial length}] \times 100$ and.

3.3 tensile stress for a given elongation

tensile stress required to perform a given elongation to the significant part of a specimen