

ILNAS

Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN 12607-2:2014

**Bitumen and bituminous binders -
Determination of the resistance to
hardening under influence of heat and
air - Part 2: TFOT method**

Bitumen und bitumenhaltige Bindemittel
- Bestimmung der Beständigkeit gegen
Verhärtung unter Einfluss von Wärme
und Luft - Teil 2: TFOT-Verfahren

Bitumes et liants bitumineux -
Détermination de la résistance au
durcissement sous l'effet de la chaleur et
de l'air - Partie 2: Méthode TFOT

11/2014



National Foreword

This European Standard EN 12607-2:2014 was adopted as Luxembourgish Standard ILNAS-EN 12607-2:2014.

Every interested party, which is member of an organization based in Luxembourg, can participate for FREE in the development of Luxembourgish (ILNAS), European (CEN, CENELEC) and International (ISO, IEC) standards:

- Participate in the design of standards
- Foresee future developments
- Participate in technical committee meetings

<https://portail-qualite.public.lu/fr/normes-normalisation/participer-normalisation.html>

THIS PUBLICATION IS COPYRIGHT PROTECTED

Nothing from this publication may be reproduced or utilized in any form or by any mean - electronic, mechanical, photocopying or any other data carries without prior permission!

English Version

**Bitumen and bituminous binders - Determination of the
resistance to hardening under influence of heat and air - Part 2:
TFOT method**

Bitumes et liants bitumineux - Détermination de la
résistance au durcissement sous l'effet de la chaleur et de
l'air - Partie 2: Méthode TFOT

Bitumen und bitumenhaltige Bindemittel - Bestimmung der
Beständigkeit gegen Verhärtung unter Einfluss von Wärme
und Luft - Teil 2: TFOT-Verfahren

This European Standard was approved by CEN on 16 August 2014.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Principle	4
4 Apparatus	5
5 Sampling	6
6 Procedure	7
7 Calculation.....	7
8 Expression of results	8
9 Precision	8
10 Test report	9
Annex A (informative) Characteristics of thermometers.....	10
Bibliography	11

Foreword

This document (EN 12607-2:2014) 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 May 2015 and conflicting national standards shall be withdrawn at the latest by May 2015.

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 12607-2:2007.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

In comparison with EN 12607-2:2007, the following significant changes have been made:

- changed/added wording of the Warning in the Scope;
- EN 12595, *Bitumen and bituminous binders — Determination of kinematic viscosity* has been added to Clause 2;
- the reference to mercury thermometer has been deleted (see subclause 4.2) and Annex A is informative.

EN 12607 consists of the following parts under the general title "*Bitumen and bituminous binders – Determination of the resistance to hardening under the influence of heat and air*":

- *Part 1: RTFOT method*;
- *Part 2: TFOT method*;
- *Part 3: RFT method*.

The scope of this standard has been enlarged by adding oxidized bitumens and hard industrial bitumens that are not used for paving applications. The reason is to facilitate that EN 13303, *Bitumen and bituminous binders – Determination of the loss of mass after heating of industrial bitumen* can be replaced in product standards by EN 12607-2 at the next revision of EN 13303.

It is to be noted that this – if so decided – will change the property from loss in mass into change in mass in EN 13304, *Bitumen and bituminous binders – Framework for specification of oxidized bitumens* and in EN 13305, *Bitumen and bituminous binders – Framework for specification of hard industrial bitumens*.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.