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NSAI Standards

Irish Standard
I.S. EN 15597-2:2019&LC:2020

Winter maintenance equipment - Spreading and spraying machines - Part 2: Requirements for distribution and their test

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This document is based on: *Published:*

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National Foreword

I.S. EN 15597-2:2019&LC:2020 is the adopted Irish version of the European Document EN 15597-2:2019, Winter maintenance equipment - Spreading and spraying machines - Part 2: Requirements for distribution and their test

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Correction Notice

Reference: **EN 15597-2**

Title: Winter maintenance equipment - Spreading and spraying machines - Part 2: Requirements for distribution and their test

Work Item: 00337056

Brussels, 2020-01-22

please include the following minor editorial correction(s) in the document related to:

the following language version(s) :
- ☒ English
- ☐ French
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- ☐ PQ/UQ
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- ☐ 2nd Parallel Formal Vote
- ☐ UAP
- ☐ TC Approval
- ☐ 2nd TC Approval
- ☒ Publication
- ☐ Parallel Publication

It has been brought to our attention that this document, issued on 2020-01-22, requires modification.

The publication year of EN 15597-1, referenced within EN 15597-2, has changed from 2019 to 2020 and so, to remain accurate, we have amended this.

Please find enclosed the updated English version.

We apologise for any inconvenience this may cause.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 15597-2

December 2019

ICS 13.030.40

Supersedes CEN/TS 15597-2:2012

English Version

Winter maintenance equipment - Spreading and spraying machines - Part 2: Requirements for distribution and their test

Équipement de viabilité hivernale - Épandeuses - Partie 2 : Prescriptions relatives à la distribution et essai

Winterdienstausrüstung - Streumaschinen - Teil 2: Anforderungen an die Streustoffverteilung und deren Prüfung

This European Standard was approved by CEN on 2 September 2019.

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Contents

Page

European foreword 3
Introduction 4
1 Scope 5
2 Normative references 5
3 Terms and definitions 5
4 Definition 8
5 Test materials 8
6 Certification procedure 9
6.1 Principle of qualification procedure 9
6.2 Identification and requirements on spreader types 9
6.3 Procedure of the static test 10
6.4 Dynamic test procedure 14
Annex A (normative) Components which have an influence on the spreading parameters 22
Annex B (normative) Example of a partially filled form for a test report 23
Bibliography 29

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European foreword

This document (EN 15597-2:2019) has been prepared by Technical Committee CEN/TC 337 "Road operation equipment and products", 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 June 2020, and conflicting national standards shall be withdrawn at the latest by June 2020.

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

This document supersedes CEN/TS 15597-2:2012, which has been technically revised. The main following changes were introduced:

— update of the normative references and of the Bibliography;

— deletion of Table 1 and Table 2 (defined working ranges of the different types of machinery) for spreader type definition, this is reported in EN 15597-1;

— inclusion of the determination and characteristics of test materials for salt 1 and salt 2 (Clause 5);

— addition of a new test for the starting behavior;

— simplification of the static tests;

— modification of Figure 1 to Figure 4 and deletion of Figures 5 to 8;

— adaptation of the test points to the changes in the working ranges of the spreader types;

— inclusion of Annex B as an example for a static test report..

EN 15597, *Winter maintenance equipment - Spreading and spraying machines*, is composed of the following parts:

— *Part 1: General requirements and definitions*;

— *Part 2: Requirements for distribution and their test*.

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

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Introduction

This document is meant to assess the demands made on mobile spreading and spraying machines operated in traffic.

For simplicity, in this document all machines are called “spreaders” also for liquid agent spraying.

Spreading machines (spreaders/gritters) are meant to be operated in such way that homogeneous distribution of spreading media is given within the set spreading dosage, width and spreading pattern track.

The static and dynamic test procedure has the task to test functionality and accuracy of the spreader. With dynamic testing, the task is also to test the spreading pattern as much as possible under real conditions. Therefore, the dynamic test is done with trucks driving realistic speeds.

To ensure the repeatability of the results and to limit the expenditure, the tests for the certification are not done with all possible spreading agents and all possible parameters of the operational area of the spreader. The salt for the test is limited to three defined test materials, also the brine is defined (see Clause 5), and the dynamic tests are not done with the highest possible driving speeds. This does not mean that the spreaders do not work with other materials or higher speeds. If the spreader is bound to operate with other materials and/or higher speed, this is meant to be tested and adjusted individually by the customer. Especially when driving at higher speeds, the influences of the driving turbulences and the truck configuration upon which the spreader is mounted become very strong so that it makes no sense to test this for the certification independent of the special truck.

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1 Scope

This document gives the possibility to certify a model of vehicle-mounted or (trailer) dragged spreading machines for winter service with standard parameters, leaving the possibility to the manufacturer to evolve in performances. At the same time, information is given on the minimum content required for operating manuals.

This document is valid for machines which are used to spread the following media:

— not pre-wetted spreading agent (solid spreading agent);

— pre-wetted spreading agent;

— liquid spreading agent (brine).

The following points are not covered by this document:

— requirements for registration and approval;

— requirements made by automobile manufacturers;

— requirements on EN 15518-3.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 15144, *Winter maintenance equipment — Terminology — Terms for winter maintenance*

EN 15431, *Winter and road service area maintenance equipments — Power system and related controls — Interchangeability and performance requirements*

EN 15597-1:2020, *Winter maintenance equipment — Spreading machines (gritting machines) — Part 1: General requirements and definitions for spreading machines*

EN ISO 13473-1, *Characterization of pavement texture by use of surface profiles — Part 1: Determination of mean profile depth (ISO 13473-1)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15144 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at https://www.iso.org/obp

3.1
machine model
machine model that includes a spreader of thawing media for road maintenance and its control box.

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