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Winter maintenance equipment - Spreading machines (gritting machines) - Part 2: Requirements for distribution and its test

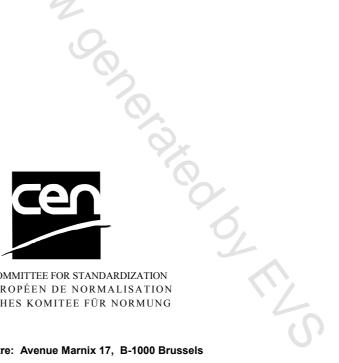
Winterdienstausrüstung - Streumaschinen - Teil 2: Anforderungen an die Streustoffverteilung und deren Prüfung

This Technical Specification (CEN/TS) was approved by CEN on 29 August 2011 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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Foreword

This document (CEN/TS 15597-2:2012) has been prepared by Technical Committee CEN/TC 337 "Winter maintenance and road service area maintenance equipment", the secretariat of which is held by AFNOR.

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 European standard comprises two parts:

- EN 15597-1, Winter maintenance equipment Spreading machines (gritting machines) Part 1: General requirements and definitions for spreading machines;
- CEN/TS 15597-2, Winter maintenance equipment Spreading machines (gritting machines) Part 2: Requirements for distribution and its test.

This Technical Specification was prepared with the aim of having a 3-year lifetime.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

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

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

Due to the different kind of thawing materials used and a lack of experience to detect the exact quantity of thawing material spread on the road, CEN/TC 337 decided to publish a Technical Specification giving the possibility to all the operators to test different methods to determine the precision of the spreading pattern. ist an. Wis Borowian Osmanan Osmanan Brite Marketon Kita Therefore the test methods have not been specified in detail in this Technical Specification. But the required accuracy of the measuring methods is given.

1 Scope

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

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

- solid thawing media with or without pre-wetted media;
- liquid thawing media.

The following points are not covered by this Technical Specification:

- requirements for registration and approval;
- requirements made by automobile manufacturers;
- requirements on safety these are dealt with in EN 13021.

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

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

3 Terms and definitions

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

3.1

machine model

machine model that includes a spreader of thawing material for road maintenance and its control box

3.2

spreader types

spreader types as defined by using different spreading parameters according to Tables 1 and 2

3.3

test materials

test materials as defined in Clause 5

3.4

test

test realised with different spreading parameters (dosage, spreading width and vehicle speed), for a machine model, a test material and a spreader type