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Winter and road service area maintenance equipment - Solid absorbents intended for road usage

Produkte für den Straßenbetriebs- und Winterdienst - Bindemittel zur Anwendung auf Straßen

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Matériel de viabilité hivernale et d'entretien des dépendances routières - Produits absorbants solides destinés à un usage routier

Ta slovenski standard je istoveten z: CEN/TS 15366:2009

ICS:

13.030.40	Naprave in oprema za odstranjevanje in obdelavo odpadkov	Installations and equipment for waste disposal and treatment
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TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

CEN/TS 15366

December 2009

ICS 13.030.40

English Version

**Winter and road service area maintenance equipment - Solid
absorbents intended for road usage**

Matériel de viabilité hivernale et d'entretien des
dépendances routières - Produits absorbants solides
destinés à un usage routier

Produkte für den Straßenbetriebs- und Winterdienst -
Bindemittel zur Anwendung auf Straßen

This Technical Specification (CEN/TS) was approved by CEN on 8 August 2009 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.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (CEN/TS 15366:2009) 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.

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, 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 and the United Kingdom.

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1 Scope

This Technical Specification is a product specification standard. It applies to bulk spreadable products for absorbing hydrocarbons, mineral oils and similar liquids from road surfaces or traffic areas. Each country may add usage regulations.

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 590, *Automotive fuels — Diesel — Requirements and test methods*

EN 14231, *Natural stone test methods — Determination of the slip resistance by means of the pendulum tester*

ISO 8213, *Chemical products for industrial use — Sampling techniques — Solid chemical products in the form of particles varying from powders to coarse lumps*

ISO 9044, *Industrial woven wire cloth — Technical requirements and tests*

ISO 11014-1, *Safety data sheet for chemical products — Part 1: Content and order of sections*

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3 Terms and definitions (standards.iteh.ai)

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

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3.1

absorbents

solid substances meant to absorb hydrocarbons, mineral oils and similar liquids from road surfaces or traffic areas

3.2

skid resistance

slip resistance

property of the road surface which evaluates the relative movement between the contact patch of a vehicle tyre and the surface

3.3

Skid Resistance Test

SRT

method to measure the slip/skid resistance of a surface by means of the pendulum test

3.4

absorbency

ability of a given mass of product material to absorb a quantity of liquid

4 Safety principles

4.1 Safety data sheets

A safety data sheet, in accordance with ISO 11014-1 (see European Directive 2001/58/EC of 27 July 2001 or ISO 11014-1), shall be available.

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The national authorities of the country where the absorbent shall be used, may demand proof that the declarations in the SDS are correct.

4.2 Human health and environmental properties

According to this Technical Specification no absorbents shall be used on roads, which are classified as “dangerous” with respect to European Directive 67/548, Article 2 (2).

Products shall fulfill the European regulations for disposal in landfill according to European Decision 2003/33, attachment, chapter 2.2.2, at L/S 10 l/kg (except sulphate).

5 Functional specifications for solid absorbents intended for road usage**5.1 General**

The specifications for absorbents that follow specify the requirements for road usage. These specifications are designed to ensure the safety of road users and to limit the dissemination of pollutants into the environment.

5.2 Absorbency

The absorbency shall be assessed, using the test protocol described in Annex A.

The minimum absorbency of hydrocarbons (gas oil) shall be 50 % wt.

The absorbency of water shall be measured in accordance with Annex A.

5.3 Skid resistance

For information, the variation in the skid resistance of the surface should be assessed using the test protocol described in Annex D.

a) Part 1: Skid resistance of wet absorbent

The required minimum values is:

SRT Final Coefficient \geq 80 % SRT initial Coefficient.

b) Part 2: Skid resistance of the road surface after removal of contaminated absorbent

The required minimum values is:

SRT Final Coefficient \geq 85 % SRT initial Coefficient.

The skid resistance shall be measured using the apparatus described in EN 14231.

A material conforms to this Technical Specification if part 1 and part 2 exceed the minimum values.

5.4 Identification of the absorbent

A technical data sheet is issued with the absorbent. This data sheet lists the composition of the product stating the standardized test methods used (referred to in Annex C) and the physical properties of the product. The objective is to know the ID card of the product.

6 Sampling for tests

6.1 General

The specifications for absorbents that follow specify the requirements for samples to be tested in an external testing laboratory.

6.2 Sample definition

If the product is already on the market, the sample is an original unopened, packed, conditioned absorbent. This sample shall be marked to have a traceability of the product (name, sample number, etc.).

Otherwise, the claimant has to give a guarantee that the sample sent corresponds in all properties to the product quality to be sold later on (minimum quantity: 5 kg).

Technical data sheet and safety data sheet shall be sent with the product.

6.3 Sampling

Sampling in the laboratory shall be made in accordance with ISO 8213.

After testing, the remaining marked representative samples shall be stored for six months in the testing laboratory.

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7 Marking, labelling, packaging

Absorbents intended for road usage shall bear labels or imprints, A6 size or larger, and in compliance with the requirements and should include the following additional information on each bag in one of the languages generally understood in the country where the product is sold.

The marking contains:

- a) the nature of the product including a list of essential components;
- b) R indicates: suitable for road purposes;
- c) reference to the usage: "Absorbent for use on road surfaces and traffic areas";
- d) reference to this Technical Specification;
- e) product name or product brand name;
- f) name of producer or distributor or other official identification code;
- g) a code for product traceability for at least two years;
- h) the contents of the package either in kilograms or in litres, with an indication of bulk density;
- i) absorbency for hydrocarbons and for water as per this Technical Specification;
- j) conditions for exposure, handling and storage extracted from the safety data sheet as defined in ISO 11014-1;
- k) statement of the obligations and the risks of using absorbents on roads:
 - 1) "Absorbents contaminated by pollutants may present the same dangers as the absorbed pollutants.";

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- 2) "They should be handled and stored with the same precautions.";
 - 3) "Used absorbents should be removed from the road surface and collected, labelled and disposed of in accordance with the legislation in force.";
- l) any other information concerning health and safety in use shall be added to this marking.

A template label is included in Annex B.

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Annex A (normative)

Determination of absorbency of water and hydrocarbon

A.1 General

This protocol describes a laboratory test to assess the saturated absorbency of absorbent products intended for road usage, for water and hydrocarbons.

A.2 Principle

The test method consists in determining the mass of water or hydrocarbon absorbed by a certain quantity of product expressed in percentage (%) of mass.

A.3 Apparatus

- a) Sieve, tank and lid

Conical sieves (as used in the Westinghouse Test) made of an inox tissue with a 355 μm mesh following the standard ISO 9044.

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