

SLOVENSKI STANDARD SIST-TS CEN/TS 17189:2024

01-julij-2024

Snovi iz izrabljenih avtomobilskih gum (ELTs) - Določanje prave gostote granulatov - Metoda, ki temelji na vodni piknometriji

Materials obtained from end of life tyres (ELTs) - Determination of the true density of granulates - Method based on water pycnometry

Materialien aus Altreifen - Bestimmung der tatsächlichen Dichte von Granulaten - Methode auf der Grundlage von Wasser-Pyknometrie

Matériaux obtenus à partir de pneus usagés non réutilisables (PUNR) - Détermination de la densité vraie des granulats - Méthode basée sur la pycnométrie à eau

Ta slovenski standard je istoveten z: CEN/TS 17189:2018

ICS:

13.030.50 Recikliranje Recycling

83.160.01 Avtomobilske pnevmatike na Tyres in general

splošno

SIST-TS CEN/TS 17189:2024 en,fr,de

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TECHNICAL SPECIFICATION SPÉCIFICATION TECHNIQUE TECHNISCHE SPEZIFIKATION

CEN/TS 17189

June 2018

ICS 13.030.50; 83.160.01

English Version

Materials obtained from end of life tyres (ELT) Determination of the true density of granulates - Method based on water pycnometry

Matériaux obtenus à partir de pneus usagés non réutilisables (PUNR) - Détermination de la densité vraie des granulats - Méthode basée sur la pycnométrie à eau

Materialien aus Altreifen (ELTs) - Bestimmung der tatsächlichen Dichte von Granulaten - Methode auf der Grundlage von Wasser-Pyknometrie

This Technical Specification (CEN/TS) was approved by CEN on 2 March 2018 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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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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CEN/TS 17189:2018 (E)

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European foreword

This document (CEN/TS 17189:2018) has been prepared by Technical Committee CEN/TC 366 "Materials obtained from End-of-Life Tyres (ELT)", the secretariat of which is held by UNI.

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CEN/TS 17189:2018 (E)

Introduction

True density is a key measurement for product characterization of size-reduced materials such as granulates. This Technical Specification defines a specific method for granulates taking into account that, to obtain an accurate value of true density, a representative sample of the material to be tested has to be taken according to the principle that every particle of the sample that represents the lot will have an equal probability of being included in the sample.

Sampling criteria to assess characteristics of granulates and powders at different stages of a production process by size reduction of end-of-life tyres are given in prEN 14243-2:2017, Clause 5.

Measurement of true density could be useful to identify the nature of particles of different origin, for example, when a customer needs to check if he received granular material derived from End-of-Life Tyres (ELTs) or from products mainly based on EPDM polymers. True density is different between these two products and could be reliable element to discriminate.

Typical values are:

— ELT granulates: 1.16 - 1.22;

EPDM granulates: 1.4 - 1.6.

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