

EUROPEAN STANDARD

EN 14956

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2005

ICS 97.220.10

English Version

Surfaces for sports areas - Determination of water content of unbound mineral surfaces for outdoor sports areas

Sols sportifs - Détermination de la teneur en eau des sols minéraux non liés pour les terrains de sport de plein air

Sportböden - Bestimmung des Wassergehalts von ungebundenen mineralischen Belägen für Sportböden für den Außenbereich

This European Standard was approved by CEN on 12 September 2005.

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Foreword

This European Standard (EN 14956:2005) has been prepared by Technical Committee CEN/TC 217 "Surfaces for sports areas", the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

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

1 Scope

This European Standard specifies a method for the determination of the water content of unbound mineral surfaces used for outdoor sports areas.

2 Principle

The mass of a specimen of an unbound mineral is determined under the prevailing conditions. After drying, the mass of the same specimen is determined again. The difference in mass is a measure of the water content.

3 Apparatus

3.1 **Conventional oven**, capable of being set at (105 ± 5) °C.

3.2 **Balance**, capable of measuring to within 0,1 g.

3.3 **Desiccator**.

4 Test specimen

Prepare a specimen having a mass of at least 1 000 g.

5 Test conditions

The test shall be carried out at a temperature of (23 ± 2) °C and a relative humidity of (50 ± 10) %.

6 Procedure

6.1 Determine the mass of the test specimen (M_A).

6.2 Dry the specimen for at least 24 h in the oven (3.1) at (105 ± 5) °C. Remove the specimen from the oven and allow the specimen to cool down in the desiccator (3.3) for at least 4 h. Re-weigh the specimen (M_B).

6.3 Place the specimen in the oven for at least 4 h. After a second cooling down period in the desiccator for at least 4 h, weigh the specimen again (M_C).

6.4 Repeat 6.3 until two successive masses are within $\pm 0,05$ g. Record this mass, M_D , as the mass of the dry specimen.

7 Expression of results

Calculate the water content of the specimen, expressed as a percentage, using the following formula:

$$\frac{M_A - M_D}{M_D} \times 100$$

where

M_A is the mass of the specimen, expressed in grams;

M_D is the mass of the dry specimen, expressed in grams.

8 Test report

The test report shall include the following information:

- a) reference to this European Standard, i.e. EN 14956:2005;
- b) description of the nature of the specimen (M_A , M_B , M_C , M_D);
- c) water content of the specimen, expressed as a percentage by mass to the nearest whole number.