

**Document Number: DIN EN ISO 10545-2**

**Title:** Ceramic tiles - Part 2: Determination of dimensions and surface quality (ISO 10545-2:1995, including Technical Corrigendum 1:1997); German version EN ISO 10545-2:1997

**Scope:**

The document describes methods for determining the dimensional characteristics (length, width, thickness, straightness of sides, rectangularity, surface flatness) and the surface quality of ceramic tiles.

**Document Number: DIN EN ISO 10545-3**

**Title:** Ceramic tiles - Part 3: Determination of water absorption, apparent porosity, apparent relative density and bulk density (ISO 10545-3:1995, including Technical Corrigendum 1:1997); German version EN ISO 10545-3:1997

**Scope:**

The document specifies methods for determining water absorption, apparent porosity, apparent relative density and bulk density of ceramic tiles.

**Document Number: DIN EN ISO 10545-4**

**Title:** Ceramic tiles - Part 4: Determination of modulus of rupture and breaking strength (ISO 10545-4:1995); German version EN ISO 10545-4:1997

**Scope:**

The document describes a test method for determining the modulus of rupture and breaking strength of all ceramic tiles.

**Document Number: DIN EN ISO 10545-6**

**Title:** Ceramic tiles - Part 6: Determination of resistance to deep abrasion for unglazed tiles (ISO 10545-6:1995); German version EN ISO 10545-6:1997

**Scope:**

The document specifies a test method for determining the resistance to deep abrasion of all unglazed ceramic tiles used for floor coverings.

**Document Number: DIN EN ISO 10545-12**

**Title:** Ceramic tiles - Part 12: Determination of frost resistance (ISO 10545-12:1995); German version EN ISO 10545-12:1997

**Scope:**

The document specifies a method for determining the frost resistance of all ceramic tiles intended for use in freezing conditions in the presence of water.

**Document Number: DIN EN ISO 10545-8**

**Title:** Ceramic tiles - Part 8: Determination of linear thermal expansion (ISO 10545-8:1994); German version EN ISO 10545-8:1996

**Scope:**

The document describes a method for the determination of the linear thermal expansion of ceramic tiles.

**Document Number: DIN 51094**

**Title:** Ceramic tiles - Testing of the light fastness and colour fastness of ceramic tiles for walls and floors

**Scope:**

The document describes a test method for the assessment of the light fastness of ceramic tiles when influenced by artificial light.

**Document Number: DIN EN ISO 10545-13**

**Title:** Ceramic tiles - Part 13: Determination of chemical resistance (ISO 10545-13:1995); German version EN ISO 10545-13:1997

**Scope:**

The document specifies a method for determining the chemical resistance of ceramic tiles at room temperature. The method is applicable to all types of ceramic tiles.

**Document Number: DIN EN ISO 10545-14**

**Title:** Ceramic tiles - Part 14: Determination of resistance to stains (ISO 10545-14:1995, including Technical Corrigendum 1:1997); German version EN ISO 10545-14:1997

**Scope:**

The document describes a method for determining the resistance to stains of the proper surface of ceramic tiles.

**Document Number: DIN 51130**

**Title:** Testing of floor coverings - Determination of the anti-slip properties - Workrooms and fields of activities with slip danger, walking method - Ramp test

**Scope:**

The document should define a test method for the determination of the anti-slip properties of floor coverings in workrooms and fields of activities with raised slip danger.

**Document Number:** DIN 51097

**Title:** Testing of floor coverings; determination of the anti-slip properties; wet-loaded barefoot areas; walking method; ramp test

**Scope:**

This document defines a test method for the determination and classification of the anti-slip property of floor coverings which are used in wet-loaded barefoot areas.

**ASTM (ASTM International)**

**Document Number:** ASTM C373-88(2006)

**Title:** Standard Test Method for Water Absorption, Bulk Density, Apparent Porosity, and Apparent Specific Gravity of Fired Whiteware Products

**Scope:**

1.1 This test method covers procedures for determining water absorption, bulk density, apparent porosity, and apparent specific gravity of fired unglazed whiteware products.

1.2 This standard may involve hazardous materials, operations, and equipment. This standard does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

**Document Number:** ASTM C499-78(2003)

**Title:** Standard Test Method for Facial Dimensions and Thickness of Flat, Rectangular Ceramic Wall and Floor Tile

**Scope:**

1.1 This test method covers the determination of the facial dimensions and thickness of flat, rectangular ceramic wall and floor tile. This test method covers tile as defined in Terminology C 242.

1.2 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

**Document Number:** ASTM C501-84(2002)

**Title:** Standard Test Method for Relative Resistance to Wear of Unglazed Ceramic Tile by the Taber Abraser

**Scope:**

1.1 This test method covers the establishment of an abrasive wear index by determination of the loss of weight resulting from abrasion of unglazed ceramic tile. It is applicable to tile described in Definitions C 242.

1.2 The values stated in inch-pound units are to be regarded as the standard.

1.3 < use. to prior limitations regulatory of applicability the determine and practices health safety appropriate establish standard this user responsibility is It its with associated any, if concerns, all address purport not does This>

**Document Number:** ASTM C1026-87(2002)

**Title:** Standard Test Method for Measuring the Resistance of Ceramic Tile to Freeze-Thaw Cycling

**Scope:**

1.1 This test method describes the procedures and equipment required to test either glazed or unglazed ceramic tile for resistance to repeated cycles of freezing and thawing. Ceramic tile of any size or shape may be tested by this test method.

1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

**Document Number:** ASTM C650-04

**Title:** Standard Test Method for Resistance of Ceramic Tile to Chemical Substances

**Scope:**

1.1 This test method covers a procedure for determining whether, and to what degree, ceramic tiles are affected by prolonged exposure to chemical substances that are commonly used in the household or for cleaning purposes as well as other more severe conditions.

1.2 The units used for concentration in this standard are v/v which refers to the volume of reagent/1 L of solution and g/L which refers to the weight of reagent, in g, to be dissolved in 1 L of water.

1.3 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

**Document Number:** ASTM C648-04

**Title:** Standard Test Method for Breaking Strength of Ceramic Tile

**Scope:**

1.1 This test method covers the determination of the breaking strength of glazed ceramic wall tile, ceramic mosaic tile, quarry tile, and paver tile, having a facial area of at least 1 in.<sup>2</sup> (6.4 cm<sup>2</sup>).

1.2 The values stated in inch-pound units are to be regarded as the standard. The metric equivalents of inch-pound units may be approximate.

1.3 *This standard may involve hazardous materials, operations, and equipment. This standard does not purport to address all of the safety problems associated with its use. It is the responsibility of whoever uses this standard to consult and establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*