



ANDEREN LIMITED



Registered in England number 4514202



Wherever in the world quality matters ISO 10545 Equipment Requirements

Overview

Tiles are mostly tested to ISO 10545 which is divided into 17 sections. Apart from section 1 which is mostly relating to administration, the other sections require test equipment.

We offer equipment for most of the sections apart from for the chemical resistance test (these materials are usually available locally at a more economic price – because of high shipping costs for hazardous substances)

Below is a list of the equipment requirements for each test which can be found on individual pages of the web site

Details

ISO 10545-2 Dimensions Testing

Universal test gauge, Calibration tiles, Vernier Calipers

Fluorescent light (6000-6500 k), 1 m engineers rule, Light meter

ISO10545-3. Water Absorbtion

Integrated Vacuum System Oven, Balance,

Alternatively

Dessicator (vacuum type) Chamois leather, Vacuum pump, Boiling vessel

ISO10545-4 Modulus of Rupture

MOR equipment

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ISO10545-5 Impact Resistance

Tile impact tester, Calibration tiles

ISO 10545-6 Deep Abrasion

Deep abrasion instrument, Digital Calipers, Calibration tile

ISO10545-7 Surface Abrasion

Surface abrasion tester, Viewing box 6000 - 6500k

Abrasion charges, Sieve, Oven

ISO10545-8 Linear Thermal Expansion

Thermal expansion instrument

Tile cutter with diamond tipped blade, Desiccator

ISO10545-9 Thermal Shock (2 methods)

Oven

Immersion method - Water tank

Dry method - Water cooled plate, Aluminium granules

Chiller may be required if ambient temperature is over 20C

ISO10545-10 Moisture Expansion

Measuring frame, Invar calibration bar

Kiln (600C)

Boiling apparatus capable of running for 24 hours continuous use

Tile cutter with diamond tipped blade, Timer

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ISO10545-11 Craze Testing

Autoclave 10bar

Methylene Blue dye, Beaker.Brush

Heat resistant gloves, Rubber gloves, Rubber apron

ISO10545-12 Resistance to Frost

Frost test instrument

Chamois leather Balance (large platform)

ISO10545-13 Chemical Resistance

Locally sourced chemicals

ISO10545-14 Resistance to Stains

Motorised Brush, Test tank, reservoir for cleaning fluid, Stain pack

Locally sourced chemicals

ISO10545-15 Heavy Metal Release

Atomic Absorption Spectrophotometer

Silicone sealant, Cotton cloth

Crystallising dish, 100ml measuring cylinder, disposable pipettes

Locally sourced analysis grade Acetic Acid

ISO10545-16 Colour Difference

Colorimeter CIE/CMC Lab, lightness

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ISO10545-17 Coefficient of Friction

Options

Tortus 3

Pendulum

Pendulum calibration rig

Pull meter

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