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Replacing GB/T 9966.3-1988

Test Methods for Natural Facing Stones – Part 3: Test Methods for Bulk Density, True Density, True Porosity and Water Absorption

天然饰面石材试验方法

第 3 部分：体积密度、真密度、真气孔率、吸水率试验方法

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Table of Contents

Foreword.....	3
1 Scope	4
2 Equipment and Measuring Gauge.....	4
3 Specimen	4
4 Test Procedures	5
5 Result Calculation	5

Foreword

The test methods of water absorption, bulk density in this Standard equivalently adopt American ASTM C97: 1996 *Test Methods of Water Absorption, Bulk Density for Dimension Stone*.

This Standard modified GB/T 9966.3-1988 Test Methods for Natural Facing Stones – Test Methods for Bulk Density, True Density, True Porosity and Water Absorption; the major technical contents were consistent with the original standard.

This Standard replaced GB/T 9966.3-1988 since the date of implementation.

This Standard was proposed by State Construction Materials Industry Association.

This Standard shall be under the jurisdiction of Synthetic Crystals Research Institute of State Construction Materials Industry Association.

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Test Methods for Natural Facing Stones – Part 3: Test Methods for Bulk Density, True Density, True Porosity and Water Absorption

1 Scope

This Standard specifies the equipment and measuring gauge, specimen, test procedures, result calculation and test report of test methods for bulk density, true density, true porosity and water absorption of natural facing stones.

This Standard is applicable to the test for bulk density, true density, true porosity and water absorption of natural facing stones.

2 Equipment and Measuring Gauge

- 2.1 Drying cabinet: temperature can be controlled in the range of $105^{\circ}\text{C}\pm 2^{\circ}\text{C}$.
- 2.2 Balance: sensibility is 10mg with maximum weighing of 1000g; sensibility is 1mg with maximum weighing of 200g.
- 2.3 Pycnometer: capacity of 25mL ~ 30mL.
- 2.4 Standard sieve: 63 μm .

3 Specimen

3.1 Specimen for bulk density and water absorption: the specimen shall be a cube with side-length of 50mm, or a cylinder with both diameter and height of 50mm; the dimension deviation is $\pm 0.5\text{mm}$. There are 5 blocks each group. The specimen shall be exempted from cracks.

3.2 Specimen for true density and true porosity: take about 1000g of clean sample, crush it into particles with size less than 5mm; split into 150g in quartering; then use porcelain mortar to grind the sample into powder that can pass through a 63 μm standard sieve.

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