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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 9966.3-2001

**Test methods for natural facing stones -- Part 3: Test methods
for bulk density, true density, true porosity and water
absorption**

(English Translation)

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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.

Drafting organization of this Standard. Synthetic Crystals Research Institute of State Construction Materials Industry Association.

Participating drafting organizations of this Standard. Dongguan Huanqiu Mica Artware Factory Co., Ltd., Beijing North Jianlei Decoration Center, and Beijing Honggao Building Decoration Design Engineering Co., Ltd.

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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.

2.2 Balance. sensibility is 10mg with maximum weighing of 1000g; sensibility is 1mg

with maximum weighing of 200g.

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 $63\mu\text{m}$ standard sieve.

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