



TEST REPORT
CERAMIC TILES - TESTING HOW TO LIST

Test report n. 0679/2017 /I

Date of report: 02/23/2017

Customer: FOSHAN GANI CERAMICS Co. Ltd.

Requested on: 01/27/2017

Our ref.number: 19418

Execution place of tests: Scandiano (RE)

Description of the sample: "Ceramic tiles
marked: Gani marble tile polished 60x60, 60x90, 90x90, 60x120,
90x120"

Sampling: carried out by the customer

Receipt date of samples: 01/31/2017

Execution date of tests: start: 01/31/2017 end: 02/03/2017

Test specification: see report following pages

Warnings: *This test report can not be reproduced in part, without our written consent.
The reported results relate only to the samples tested.
The information included in quotation marks was provided by the customer.*





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Gani marble tile polished 60x60, 60x90, 90x90, 60x120, 90x120"

DETERMINATION OF WATER ABSORPTION
UNI EN ISO 10545-3: 2000

Principle: Impregnation of the tiles dried, by immersion in water and calculating the water absorption using the relationship between the dry mass and the mass of the wet tile through by the method of boiling.

Used method: method boiling

N. samples tested: 5

Test results: 1) Water absorption E_b (%):

n. sample	E_b (%)
1	0,1
2	0,1
3	0,0
4	0,1
5	0,1



2) Water absorption mean value E_b (%): 0,1



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DETERMINATION OF RESISTANCE TO STAINS

UNI EN ISO 10545-14: 2015

Principle: determination of the resistance to stains by maintaining test solutions and materials in contact with the proper surface of the tiles for a suitable length of time; the surfaces are then subjected to defined cleaning methods, and finally inspected for visual changes.

N. samples tested: 5

Test results:

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
<u>Staining agents</u>	Class	Class	Class	Class	Class
<u>Stains leaving a trace (pastes)</u>					
Green staining agent in light oil	4	4	4	4	4
<u>Stains having chemical/oxidizing action</u>					
Iodine, alcoholic solution 13 g/l	5	5	5	5	5
<u>Stains forming a film</u>					
Olive oil	5	5	5	5	5

Classification procedure of the test of resistance to stains:

- Class 5: Procedure A, stain removed with warm water (55 ± 5) ° C, allowed to flow for 5 min
- Class 4: Procedure B, stain removed manually using a natural non-abrasive sponge and weak cleaning agent, (pH $6.5 \div 7.5$) (Ajax liquid)
- Class 3: Procedure C, stain removed mechanically for 2 min using a strong cleaning agent containing abrasive (pH $9 \div 10$) (Cif)
- Class 2: Procedure D, stain removed by immersing the sample in a suitable solvent for 24 hours.
- Class 1: stain not removed





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SCRATCH HARDNESS OF SURFACE ACCORDING TO MOHS'
STANDARD BS 6431 Part 13:1992

Principle: Determination of the scratch hardness on Mohs' scale by drawing certain minerals of defined hardness by hand over the surface.

RESULTS

Sample number	Mohs Scale
1	5
2	5
3	5

End of the document



THE DIRECTOR
(M.L. Simioli)