



LABORATORIO CERAMICO SEBASTIAN CARPI
COLEGIO OFICIAL DE INGENIEROS INDUSTRIALES DE CASTELLON

N.I.F.: Q - 4670001 - I

AVENIDA DEL MAR, Nº 46 - 12003 CASTELLON
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TEST REPORT

PETITIONER: LUCIA CRISTAL Ltd.
ADDRESS: Room 309, 3rd/fl. Kai Tak Commercial Building,
317-319 Des Voeux Road Central
CITY: HONG KONG
TEST REPORT Nº: 49.808
PAGE Nº: 1 / 3
DATE OF TEST REPORT: 07/03/2011
DATE OF RECEIPT OF THE SAMPLE: 18/02/2011
DATE OF TESTS PERFORMANCE: 18 - 28/02/2011
NUMBER OF TILES SUPPLIED: 50

DESCRIPTION OF THE SAMPLE:

Glass mosaic, 20 x 20 mm. Ref.:

-- **7016 1000 GOLD LI** --

Code Lab.: 74-11

TEST PERFORMED:

- UNE-EN-ISO 10545-13 : DETERMINATION OF CHEMICAL RESISTANCE.
- UNE-EN-ISO 10545-14 : DETERMINATION OF RESISTANCE TO STAINS.

José A. Estibález Catalán
MANAGER

The samples and his description have been chosen by the petitioner.
The reported results relate only to the samples tested.
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DETERMINATION OF CHEMICAL RESISTANCE

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 20 x 20 mm. Ref.:

-- **7016 1000 GOLD LI** --

Code Lab.: 74-11

RESULTS.- (Test performed after **UNE-EN-ISO 10545 Part 13:1998**)

* Number of test specimens used with each test solution: FIVE.

<u>Test solutions</u>	<u>Classification</u>	<u>Visual Changes</u>
* <u>Household chemicals</u> - Ammonium Chloride	GA	- No visible effects.
* <u>Swimming pool salts</u> - Sodium Hypochlorite	GA	- No visible effects.
* <u>Acids and Alkalis (Low concentrations)</u> - Hydrochloric Acid	GLA	- No visible effects.
- Citric Acid	GLA	- No visible effects.
- Potassium Hydroxide	GLA	- No visible effects.
* <u>Acids and Alkalis (High concentrations)</u> - Hydrochloric Acid	GHA	- No visible effects.
- Lactic Acid	GHA	- No visible effects.
- Potassium Hydroxide	GHA	- No visible effects.



DETERMINATION OF RESISTANCE TO STAINS

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 20 x 20 mm. Ref.:

-- **7016 1000 GOLD LI** --

Code Lab.: 74-11

RESULTS.- (Test performed after **UNE-EN-ISO 10545 Part 14:1998**)

* Number of test specimens used with each test solution: FIVE.

<u>Staining Agents</u>	<u>Cleaning Procedure</u>	<u>Class</u>	<u>Observations</u>
* <u>Stains having tracing action (Pastes).</u> - Green staining agent in light oil	- Running hot water for five minutes. (Procedure A).	5	- Stain removed.
* <u>Stains having chemical / oxidizing action</u> - Iodine alcohol solution	- Running hot water for five minutes. (Procedure A).	5	- Stain removed.
* <u>Stains having filming action</u> - Olive oil	- Running hot water for five minutes. (Procedure A).	5	- Stain removed.

* Observations: The chromium oxide used as green staining agent have a grain size less than 80 microns, being the 50 % (m/m) of theirs down on 3 microns.
