



PRODUCT TESTING SERVICE

100 Clemson Research Blvd. Anderson, SC 29625 Tel (864) 646-TILE Fax (864) 646-2821

TCNA TEST REPORT NUMBER:

TCNA-463-14

PAGE: 1 OF 2

TEST REQUESTED BY:

Arto Brick

TEST METHOD: ASTM C650-04 (2009): "Resistance of Ceramic Tile to Chemical Substances"

Informal Test Method Description: This test method covers a procedure for determining whether, and to what degree, ceramic tiles are affected by prolonged exposure to chemical substances that are commonly in the household or for cleaning purposes as well as other more severe conditions. This test method calls for one or more tests, each consisting of exposing flat pieces of ceramic tile to the action of a specific chemical substance for a definite period of time at a prescribed temperature.

This summary is provided for the reader's convenience and is not a complete description of the method. See ASTM C650 for all method details and information.

TEST SUBJECT MATERIAL:

Identified by client as: "OLT – 4x4 Oleson Leather"
Approximate Size as Received: 4"x4"

TEST DATE:

8/14/2014– 8/18/2014

TEST PROCEDURE:

- Sample prep: The tile was cut to 15 pieces of 2" x 2" tile.
- One (1) 2" x 2" glazed specimen was tested for each test solution.
- The specimens were exposed to the test solutions for 24 hrs at 74°F.

TEST RESULTS:

	Test Solution	Visual Test (Affected?)	Pencil Test (Affected?)
<i>Common Household and Cleaning Chemicals</i>	Acetic acid, 3% (v/v)	No	No
	Acetic acid, 10% (v/v)	No	No
	Ammonium chloride, 100 g/L	No	No
	Citric acid solution, 30 g/L	No	No
	Citric acid solution, 100 g/L	No	No
	Lactic acid, 5% (v/v)	No	No
	Phosphoric acid, 3% (v/v)	No	No
	Phosphoric acid, 10% (v/v)	No	No
	Sulfamic acid, 30 g/L	No	No
	Sulfamic acid, 100 g/L	No	No
<i>Swimming Pool Chemicals</i>	Sodium hypochlorite solution, 20 mg/L	No	No
<i>Acids and Bases</i>	Hydrochloric acid solution, 3% (v/v)	Yes	NA
	Hydrochloric acid solution, 18% (v/v)	Yes	NA
	Potassium hydroxide, 30 g/L	No	No
	Potassium hydroxide, 100 g/L	No	No

Katelyn Simpson
Laboratory Manager

8/19/2014



PRODUCT TESTING SERVICE

100 Clemson Research Blvd. Anderson, SC 29625 Tel (864) 646-TILE Fax (864) 646-2821

TCNA TEST REPORT NUMBER:

TCNA-463-14

PAGE: 2 OF 2

TEST REQUESTED BY:

Arto Brick

TEST SUBJECT MATERIAL:

Identified by client as: "OLT – 4x4 Oleson Leather"

TEST METHOD: ASTM C650-04 (2009): "Resistance of Ceramic Tile to Chemical Substances"

COMMENTS: None

ANSI SPECIFICATIONS*:

ANSI standard	Class	Maximum number of affected samples
ANSI A137.1/A137.2	Class A	0
ANSI A137.1/A137.2	Class B	1
ANSI A137.1/A137.2	Class C	2
ANSI A137.1/A137.2	Class D	3
ANSI A137.1/A137.2	Class E	4 or more

*For more detailed information, refer to ANSI A137.1 Specifications for Ceramic Tile or ANSI A137.2 Specifications for Glass Tile

Katelyn Simpson
Laboratory Manager

8/19/2014

Testing Services: testing@tileusa.com Literature Orders: literature@tileusa.com Web Site: www.tileusa.com

This report is confidential and has been prepared for the exclusive use of the client. It is not an endorsement, approval, certification, or criticism of any product by TCNA. This report shall not be published in any form without prior written consent from TCNA