



**ANALISI CHIMICHE - CONTROLLO QUALITA'
CONSULENZE TECNICHE**

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FOSHAN GANI CERAMICS Co., Ltd.

Floor2-5, Tower4, Smart City, No.28 Jihua Road

1st.Chancheng Area

FOSHAN - GUANGDONG - CHINA

Report of analysis:

01080/A/1/ING/17

Issued: 28/03/2017

Sample description: Tile 60x90 cm of the series Gani Marble Tiles in sizes 60x60 cm, 60x90 cm, 60x120 cm, 90x90 cm.

Sampled by: Giavelli Ceramiche Srl

Arrival sample: 14/03/2017

Sample date: 14/03/2017

Start analysis: 18/03/2017

Sample n°: 01080/17/CH

End analysis: 28/03/2017

MDPG 08/04 Rev 04

Parameter	Result	Udm	U	LQ	Method	Limits
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CESSION IN ACETIC ACID 4% (v/v) - STATIC SURFACE CONTACT for 24 hours - Rif. UNI EN ISO 10545-15

Cadmium (as Cd)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009	0,07
Lead (as Pb)	<0,00088	mg/dm ²			UNI EN ISO 11885:2009	0,8

END OF THE TEST REPORT

NOTE:

The limits mentioned above refer to the DM 04/04/1985 (GU n°98 26/04/1985) integrated as European directive n. 2005/31/CE of the 29/04/2015.

Udm = measurement unit; LQ = quantification limit;

U = expanded uncertainty of measurement. Uncertainty stimed with factor K=2 (95%).

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LABORATORY RESPONSIBLE

Dott. Domenico Giovini





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Sample n°: 01080/17/CH

Arrival sample: 14/03/2017
Start analysis: 18/03/2017
End analysis: 28/03/2017

MDPG 08/04 Rev 04

Parameter	Result	Udm	U	LQ	Method
CESSION IN WATER - STATIC SURFACE CONTACT for 24 hours					
Antimony (as Sb)	<0,00018	mg/dm ²			APAT CNR IRSA 3060 A Man 29 2003
Arsenic (as As)	<0,00018	mg/dm ²			APAT CNR IRSA 3080 A Man 29 2003
Cadmium (as Cd)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Cobalt (as Co)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Chromium (as Cr)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Chromium hexavalent (as Cr)	<0,00009	mg/dm ²			APAT CNR IRSA 3150 B2 Man 29 2003
Nickel (as Ni)	<0,00044	mg/dm ²			UNI EN ISO 11885:2009
Lead (as Pb)	<0,00088	mg/dm ²			UNI EN ISO 11885:2009
Copper (as Cu)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Selenium (as Se)	<0,00018	mg/dm ²			APAT CNR IRSA 3260 A Man 29 2003
Zinc (as Zn)	0,00010	mg/dm ²			UNI EN ISO 11885:2009

CONTINUED ON PAGE 2

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Sampled by:	Giavelli Ceramiche Srl	Arrival sample:	14/03/2017
Sample date:	14/03/2017	Start analysis:	18/03/2017
Sample n°:	01080/17/CH	End analysis:	28/03/2017

MDPG 08/04 Rev 04

Parameter	Result	Udm	U	LQ	Method
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CESSION IN WATER - DYNAMIC SURFACE CONTACT for 24 hours

Antimony (as Sb)	<0,00018	mg/dm ²			APAT CNR IRSA 3060 A Mar 29 2003
Arsenic (as As)	<0,00018	mg/dm ²			APAT CNR IRSA 3080 A Mar 29 2003
Cadmium (as Cd)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Cobalt (as Co)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Chromium (as Cr)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Chromium hexavalent (as Cr)	<0,00009	mg/dm ²			APAT CNR IRSA 3150 B2 Mar 29 2003
Nickel (as Ni)	<0,00044	mg/dm ²			UNI EN ISO 11885:2009
Lead (as Pb)	<0,00088	mg/dm ²			UNI EN ISO 11885:2009
Copper (as Cu)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Selenium (as Se)	<0,00018	mg/dm ²			APAT CNR IRSA 3260 A Mar 29 2003
Zinc (as Zn)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009

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Arrival sample: 14/03/2017
Start analysis: 18/03/2017
End analysis: 28/03/2017

MDPG 08/04 Rev 04

Parameter	Result	Udm	U	LQ	Method
CESSION IN ACETIC ACID 4% (v/v) - STATIC SURFACE CONTACT for 24 hours - Rif. UNI EN ISO 10545-15					
Antimony (as Sb)	<0,00018	mg/dm ²			APAT CNR IRSA 3060 A Man 29 2003
Arsenic (as As)	<0,00009	mg/dm ²			APAT CNR IRSA 3080 A Man 29 2003
Cadmium (as Cd)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Cobalt (as Co)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Chromium (as Cr)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Chromium hexavalent (as Cr)	<0,00009	mg/dm ²			APAT CNR IRSA 3150 B2 Man 29 2003
Nickel (as Ni)	<0,00044	mg/dm ²			UNI EN ISO 11885:2009
Lead (as Pb)	<0,00088	mg/dm ²			UNI EN ISO 11885:2009
Copper (as Cu)	0,00018	mg/dm ²			UNI EN ISO 11885:2009
Selenium (as Se)	<0,00018	mg/dm ²			APAT CNR IRSA 3260 A Man 29 2003
Zinc (as Zn)	0,0285	mg/dm ²			UNI EN ISO 11885:2009

CONTINUED ON PAGE 4

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Arrival sample: 14/03/2017

Start analysis: 18/03/2017

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MDPG 08/04 Rev 04

Parameter	Result	Udm	U	LQ	Method
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CESSION IN HYDROCHLORIC ACID 3% (v/v) - STATIC SURFACE CONTACT for 24 hours

Antimony (as Sb)	<0,00018	mg/dm ²			APAT CNR IRSA 3060 A Man 29 2003
Arsenic (as As)	<0,00018	mg/dm ²			APAT CNR IRSA 3080 A Man 29 2003
Cadmium (as Cd)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Cobalt (as Co)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Chromium (as Cr)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Nickel (as Ni)	<0,00044	mg/dm ²			UNI EN ISO 11885:2009
Lead (as Pb)	<0,00088	mg/dm ²			UNI EN ISO 11885:2009
Copper (as Cu)	<0,00009	mg/dm ²			UNI EN ISO 11885:2009
Selenium (as Se)	<0,00018	mg/dm ²			APAT CNR IRSA 3260 A Man 29 2003
Zinc (as Zn)	0,0090	mg/dm ²			UNI EN ISO 11885:2009

CONTINUED ON PAGE 5

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MDPG 08/04 Rev 04

Parameter	Result	Udm	U	LQ	Method
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CESSION IN CONC. HYDROCHLORIC ACID - STATIC SURFACE CONTACT for 24 hours

Antimony (as Sb)	<0,00022	mg/dm ²			APAT CNR IRSA 3060 A Mar 29 2003
Arsenic (as As)	0,00033	mg/dm ²			APAT CNR IRSA 3080 A Mar 29 2003
Cadmium (as Cd)	0,00013	mg/dm ²			UNI EN ISO 11885:2009
Cobalt (as Co)	<0,00011	mg/dm ²			UNI EN ISO 11885:2009
Chromium (as Cr)	0,00082	mg/dm ²			UNI EN ISO 11885:2009
Nickel (as Ni)	0,00071	mg/dm ²			UNI EN ISO 11885:2009
Lead (as Pb)	0,00120	mg/dm ²			UNI EN ISO 11885:2009
Copper (as Cu)	0,00357	mg/dm ²			UNI EN ISO 11885:2009
Selenium (as Se)	<0,00022	mg/dm ²			APAT CNR IRSA 3260 A Mar 29 2003
Zinc (as Zn)	0,0285	mg/dm ²			UNI EN ISO 11885:2009

END OF THE TEST REPORT

NOTE:

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Chemicalab

del Dott. Giovini Domenico S.r.l.

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Annex to the test report n° 01080/1/ING/17

The action of several attacks to the sample does not show visible signs of surface corrosion.

The results of the assignment on the surface are very low.

For now the only regulation with which to compare them, to our knowledge, is DM 04/04/1985 (GU n°98 del 26/04/1985) concerning the cession of Pb and Cd of ceramic articles intended for contact with food integrated as European directive n. 2005/31/CE of the 29/04/2015 that for Lead (as Pb) it expected not to exceed 0,8 mg/dm² and for Cadmium (as Cd) 0,07 mg/dm².

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Dott. Domenico Giovini

