



**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:

01081/A/1/ING/17

Issued: 28/03/2017

Sample description: Tile 45x90 cm of the series Gres Porcellanato Smaltato in sizes 45x90 cm, 90x90 cm.

Sampled by: Giavelli Ceramiche Srl

Sample date: 14/03/2017

Sample n°: 01081/17/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	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.

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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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Sampled by:	Giavelli Ceramiche Srl	Arrival sample: 14/03/2017
Sample date:	14/03/2017	Start analysis: 18/03/2017
Sample n°:	01081/17/CH	End analysis: 28/03/2017

MDPG 08/D4 Rev 04

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

Antimony (as Sb)	<0,00022	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)	<0,00022	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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01081/1/ING/17

Issued: 28/03/2017

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Tile 45x90 cm of the series Gres Porcellanato Smaltato in sizes 45x90 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°:

01081/17/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)	<0,00009	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

CONTINUED ON PAGE 3

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Sample date:

14/03/2017

Start analysis: 18/03/2017

Sample n°:

01081/17/CH

End analysis: 28/03/2017

MDPG 08/04 Rev 04

Parameter	Result	Udm	U	LQ	Method
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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 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)	0,00254	mg/dm ²			UNI EN ISO 11885:2009

CONTINUED ON PAGE 4

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Sampled by: Giavelli Ceramiche Srl
Sample date: 14/03/2017
Sample n°: 01081/17/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
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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)	0,00021	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)	0,00744	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)	<0,00018	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)	0,00018	mg/dm ²			UNI EN ISO 11885:2009
Chromium (as Cr)	0,00060	mg/dm ²			UNI EN ISO 11885:2009
Nickel (as Ni)	0,00086	mg/dm ²			UNI EN ISO 11885:2009
Lead (as Pb)	<0,00088	mg/dm ²			UNI EN ISO 11885:2009
Copper (as Cu)	0,00062	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)	0,0102	mg/dm ²			UNI EN ISO 11885:2009

END OF THE TEST REPORT

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Dott. Domenico Giovini



Chemicalab

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Annex to the test report n° 01081/1/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.

CHEMICALAB

Dott. Domenico Giovini

