

# TECHNICAL DATA BY PRODUCT TYPOLOGY

Product Typology	EN 14411:2012 Group	Dimensions & Surface Quality		Physical Properties																				Chemical Properties										
		Standard	Dimensions	Surface Quality (1)	Water Absorption (% by mass)	Breaking Strength (2)		Flexural Tensile Strength (Modulus of Rupture)		Abrasion (3)		Linear Thermal Expansion	Resistance to Thermal Shock	Resistance to Cracking (GL)	Freeze-thaw Resistance (Frost Resistance) (4)	Slipperiness (3)	Bond Strength / Adhesion (5)				Moisture Expansion	Small Colour Differences (6)		Impact Resistance (3)	Reaction to Fire (7)	Tactility	Resistance to Staining		Chemical Attack			Dangerous Substances (9)		
						Aver.	Ind.	UGL	GL	UGL	GL						GL	GL	GL	UGL		GL	UGL				GL	UGL	GL	UGL	GL	UGL	GL	UGL
		Thickness		Aver.	Ind.	UGL	GL	UGL	GL	UGL	GL	UGL	GL	UGL	GL	UGL	GL	UGL	GL	UGL	GL	UGL	GL	UGL	GL	UGL	GL	UGL	GL	UGL	GL	UGL		
<b>G</b>	<b>Group B1a (Annex G)</b>	EN	See Table																														> 95%	Eb ≤ 0,5%
		CINCA	See Table	> 95%	Eb ≤ 0,2%	≥ 1430 N	≥ 770 N	≥ 38 N/mm <sup>2</sup>	≥ 35 N/mm <sup>2</sup>	≤ 155 mm <sup>3</sup>	See Catalog	6,0 - 7,0 x 10 <sup>-6</sup> °K <sup>-1</sup>	Conform	Conform	Conform	See Catalog	> 1 N/mm <sup>2</sup>	> 1 N/mm <sup>2</sup>	> 2 N/mm <sup>2</sup>	NPD	< 0,06%	Conform	Conform	> 0,55	Class A1 Class A1 <sub>fl</sub>	NPD	Class 5	Min. Class 3	ULA GLA	NPD	UA GA	≤ 0,005 mg/dm <sup>2</sup>	≤ 0,05 mg/dm <sup>2</sup>	NPD
Test According With		EN ISO 10545-2	EN ISO 10545-2	EN ISO 10545-3	EN ISO 10545-4	EN ISO 10545-4	EN ISO 10545-6	EN ISO 10545-7	EN ISO 10545-8	EN ISO 10545-9	EN ISO 10545-11	EN ISO 10545-12	DIN 51130 DIN 51097 CEN/TS 16165	EN 12004 4.1	EN 12004 4.2	EN 12004 4.3	EN 1015-12	EN ISO 10545-10	EN ISO 10545-16	EN ISO 10545-5	CWT	CEN/TS 15209	EN ISO 10545-14	EN ISO 10545-13	EN ISO 10545-13	EN ISO 10545-13	EN ISO 10545-15	EN ISO 10545-15	If relevant					
Standard Item #		A.1 to A.5	A.6	B.1	B.2 a)	B.2 b)	B.3	B.4 a)	B.4 b)	B.5	B.6	B.7	B.8	B.9	B.10 a)	B.10 b)	B.10 c)	B.10 d)	B.11	B.12 a)	B.12 b)	B.13	B.14	B.15	C.1 a)	C.1 b)	C.2 a)	C.2 b)	C.2 c)	C.3 a)	C.3 b)	C.3 c)		

## NOTES

NPD - No Performance Declared.

(1) Percentage of tiles free from any visual defect that could impair the appearance of a major area of tiles. Slight color variations due to the firing process, intentional irregularities of colors, spots or colored dots could be characteristic of a given product and are not considered as a defect.

(2) The breaking strength varies from size to size. The stated values are minimum values for each thickness category. For more informations please contact CINCA commercial services.

(3) Only applicable to floor tiles.

(4) Only applicable to tiles intended to use on exterior areas.

(5) The laboratorial determination regarding the adhesion of ceramic tiles to mortar / cement glue is merely indicative and relevant only under certain specific circumstances, namely, according to the harmonized standard, "only when the tile is used on walls subject to requisites against the fall of objects in trafficable areas.". The results obtained and declared are a result of tests carried out under ideal laboratorial conditions, and therefore a correlation between the declared adhesion results and the performance of the tile in use may not exist, since application techniques and the different types of support can strongly influence the final performance.

(6) Only for plain color tiles where small colour differences are important in a specification. For more informations please contact CINCA commercial services.

(7) Given ceramic tiles are non combustible, they're classified in Class A1 "no contribution towards fire" and as such the CWT test is not required in accordance with the Decision of the Commission 96/603/CE, as amended.

(8) The test for high concentration of acids and alkalis is only intended for ceramic tiles which are to be used in potentially corrosive conditions. For more informations please contact CINCA commercial services.

(9) Only for glazed ceramic tiles when intended to use on worktops and/or wall surfaces where food preparation takes place and food may be in direct contact with the glazed surface of the tile. Please take note that these figures are subject to changes without further notice. Please contact CINCA commercial services if you intend any of the referred uses.

(10) Only tested when relevant considering european regulations or national laws, regulations or administrative provisions. The relevant tests could be conducted by request from customers after analysis of the local applicable laws and regulations. Please contact CINCA commercial services for more information.

(11) Under Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th of December 2006 (REACH), article 3, number 3, floor and wall tiles are considered articles and are not expected to release any substances when used in normal and reasonably predicted conditions, reason why any safety data sheet for its fixing, transport or use in the market, is not necessary.

(12) Wall and floor tiles are not classified as hazardous according to the Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th of December 2008.

	GL	UGL	Product Typology
Glazed Porcelain Stoneware	■		G

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All specifications subject to change without further notice

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