

## TECHNICAL INFORMATION

### DEKTON

Name and Identification

Product: Dekton®

Code: Family I - II - III - IV

Name and address of manufacturer:

Company: Cosentino S.A

Address: Carretera A-334, km 59, código postal 04850 Cantoria (Almería) - Spain

# TECHNICAL INFORMATION DEKTON FAMILY I | STANDARD EN-14411

(Aldem, Ananké, Borea, Bromo, Domoos, Fossil, Galema, Kadum, Kelya, Keon, Keranium, Kira, Korus, Kreta, Laos, Milar, Odin, Orix, Sirius, Sirocco, Soke, Strato, Valterra, Vegha, Ventus, Vera)

Test	Standard	Determination	UD	Family I
Flexural tensile strength or modulus of rupture	EN ISO 10545-4	Average flexural resistance	N/mm <sub>2</sub>	46
		Average break load	N	2548
		Average break strength	N	14966
Water absorption, apparent porosity, density	EN ISO 10545-3	Water absorption by boiling	%	0
		Water absorption by vacuum	%	0.1
		Open porosity	%	0.2
		Apparent relative density	g/cm <sup>3</sup>	2.51
		Apparent density	g/cm <sup>3</sup>	2.50
Resistance to deep abrasion	EN ISO 10545-6	Wear volume	mm <sup>3</sup>	125
Dimensions and surface quality	EN ISO 10545-2	Length and width	%	0.11/-0.18
		Thickness	%	0.50/-0.50
		Straightness of sides	%	0.01/-0.01
		Rectangularity	%	0.07/-0.16
		Centre curvature	%	0.04/-0.08
		Side curvature	%	0.06/-0.06
		Warpage	%	-0.11
		Surface quality	%	100
Impact resistance	EN ISO 10545-5	Coefficient of restitution (COR)	-	0.85
Determination of linear thermal expansion	EN ISO 10545-8	Expansion 30-100°C	°C <sup>-1</sup>	6.5·10 <sup>-6</sup>
Thermal shock resistance	EN ISO 10545-9	Damage	-	No affected
Moisture expansion	EN ISO 10545-10	Expansion max	mm/m	0.1
		Expansion mid	mm/m	0.0
Frost resistance	EN ISO 10545-12	Damage	-	No affected
Resistance to chemicals	EN ISO 10545-13	CINH <sub>4</sub> / Cleaning products	Type	UA (no damage)
		Bleach/swimming pool salts	Type	UA (no damage)
		HCl (3% v/v)	Type	ULA (no damage)
		Citric acid (100 g/l)	Type	ULA (no damage)
		KOH (30 g/l)	Type	ULA (no damage)
		HCl (18%)	Type	UHA (no damage)
		Lactic acid (5%)	Type	UHA (no damage)
		KOH (100 g/l)	Type	UHA (no damage)
Resistance to staining	EN ISO 10545-14	Green agent	Type	5
		Red agent	Type	-
		Iodine (solution)	Type	5
		Olive oil	Type	5

# TECHNICAL INFORMATION DEKTON FAMILY II | STANDARD EN-14411

(Ariane, Aura, Aura15, Entzo, Kairos, Lunar, Nayla, Nilium, Opera, Zenith)

Test	Standard	Determination	UD	Family II-A
Flexural tensile strength or modulus of rupture	EN ISO 10545-4	Average flexural resistance	N/mm <sub>2</sub>	45
		Average break load	N	2313
		Average break strength	N	13559
Water absorption, apparent porosity, density	EN ISO 10545-3	Water absorption by boiling	%	0.1
		Water absorption by vacuum	%	0.1
		Open porosity	%	0.2
		Apparent relative density	g/cm <sup>3</sup>	2.61
		Apparent density	g/cm <sup>3</sup>	2.61
Resistance to deep abrasion	EN ISO 10545-6	Wear volume	mm <sup>3</sup>	106
Dimensions and surface quality	EN ISO 10545-2	Length and width	%	0.04/-0.08
		Thickness	%	4.95/-2.20
		Straightness of sides	%	0.03/-0.03
		Rectangularity	%	0.04/-0.09
		Centre curvature	%	-0.06
		Side curvature	%	0.02/-0.04
		Warping	%	-0.07
Surface quality	%	100		
Impact resistance	EN ISO 10545-5	Coefficient of restitution (COR)	-	0.85
Determination of linear thermal expansion	EN ISO 10545-8	Expansion 30-100°C	°C <sup>-1</sup>	5.1·10 <sup>-6</sup>
Thermal shock resistance	EN ISO 10545-9	Damage	-	No affected
Moisture expansion	EN ISO 10545-10	Expansion max	mm/m	0.1
		Expansion mid	mm/m	0.0
Frost resistance	EN ISO 10545-12	Damage	-	No affected
Resistance to chemicals	EN ISO 10545-13	CINH <sub>4</sub> / Cleaning products	Type	UA (no damage)
		Bleach/swimming pool salts	Type	UA (no damage)
		HCl (3% v/v)	Type	ULA (no damage)
		Citric acid (100 g/l)	Type	ULA (no damage)
		KOH (30 g/l)	Type	ULA (no damage)
		HCl (18%)	Type	ULA (no damage)
		Lactic acid (5%)	Type	ULA (no damage)
KOH (100 g/l)	Type	ULA (no damage)		
Resistance to staining	EN ISO 10545-14	Green agent	Type	5
		Red agent	Type	-
		Iodine (solution)	Type	5
		Olive oil	Type	5

# TECHNICAL INFORMATION DEKTON FAMILY III | STANDARD EN-14411

(Aged Timber, Bento, Blanc Concrete, Danae, Dove, Edora, Gada, Irok, Makai, Sarey, Sterling)

Test	Standard	Determination	UD	Family III
Flexural tensile strength or modulus of rupture	EN ISO 10545-4	Average flexural resistance	N/mm <sub>2</sub>	55
		Average break load	N	2356
		Average break strength	N	13818
Water absorption, apparent porosity, density	EN ISO 10545-3	Water absorption by boiling	%	0.1
		Water absorption by vacuum	%	0.1
		Open porosity	%	0.2
		Apparent relative density	g/cm <sup>3</sup>	2.53
		Apparent density	g/cm <sup>3</sup>	2.52
Resistance to deep abrasion	EN ISO 10545-6	Wear volume	mm <sup>3</sup>	115
Dimensions and surface quality	EN ISO 10545-2	Length and width	%	0.04/-0.04
		Thickness	%	0.53/-0.53
		Straightness of sides	%	0.01/-0.03
		Rectangularity	%	0.21/-0.21
		Centre curvature	%	-0.06
		Side curvature	%	0.02/-0.04
		Warping	%	-0.06
Surface quality	%	100		
Impact resistance	EN ISO 10545-5	Coefficient of restitution (COR)	-	0.85
Determination of linear thermal expansion	EN ISO 10545-8	Expansion 30-100°C	°C <sup>-1</sup>	6.3·10 <sup>-6</sup>
Thermal shock resistance	EN ISO 10545-9	Damage	-	No affected
Moisture expansion	EN ISO 10545-10	Expansion max	mm/m	0.1
		Expansion mid	mm/m	0.0
Frost resistance	EN ISO 10545-12	Damage	-	No affected
Resistance to chemicals	EN ISO 10545-13	ClNH <sub>4</sub> / Cleaning products	Type	UA (no damage)
		Bleach/swimming pool salts	Type	UA (no damage)
		HCl (3% v/v)	Type	ULA (no damage)
		Citric acid (100 g/l)	Type	ULA (no damage)
		KOH (30 g/l)	Type	ULA (no damage)
		HCl (18%)	Type	ULA (no damage)
		Lactic acid (5%)	Type	ULA (no damage)
KOH (100 g/l)	Type	ULA (no damage)		
Resistance to staining	EN ISO 10545-14	Green agent	Type	5
		Red agent	Type	-
		Iodine (solution)	Type	5
		Olive oil	Type	5

# TECHNICAL INFORMATION DEKTON FAMILY IV | STANDARD

## EN-14411

(Radium, Trilium)

Test	Standard	Determination	UD	Family IV
Flexural tensile strength or modulus of rupture	EN ISO 10545-4	Average flexural resistance	N/mm <sub>2</sub>	46
		Average break load	N	2568
		Average break strength	N	15620
Water absorption, apparent porosity, density	EN ISO 10545-3	Water absorption by boiling	%	0.1
		Water absorption by vacuum	%	0.1
		Open porosity	%	0.2
		Apparent relative density	g/cm <sup>3</sup>	2.44
		Apparent density	g/cm <sup>3</sup>	2.44
Resistance to deep abrasion	EN ISO 10545-6	Wear volume	mm <sup>3</sup>	119
Dimensions and surface quality	EN ISO 10545-2	Length and width	%	0.02/-0.02
		Thickness	%	-1
		Straightness of sides	%	0.02/-0.02
		Rectangularity	%	0.08/-0.08
		Centre curvature	%	-0.07
		Side curvature	%	0.02/-0.02
		Warping	%	-0.04
Surface quality	%	100		
Impact resistance	EN ISO 10545-5	Coefficient of restitution (COR)	-	0.92
Determination of linear thermal expansion	EN ISO 10545-8	Expansion 30-100°C	°C <sup>-1</sup>	5.8·10 <sup>-6</sup>
Thermal shock resistance	EN ISO 10545-9	Damage	-	No affected
Moisture expansion	EN ISO 10545-10	Expansion max	mm/m	0.1
		Expansion mid	mm/m	0.1
Frost resistance	EN ISO 10545-12	Damage	-	No affected
Resistance to chemicals	EN ISO 10545-13	ClNH <sub>4</sub> / Cleaning products	Type	UA (no damage)
		Bleach/swimming pool salts	Type	UA (no damage)
		HCl (3% v/v)	Type	ULA (no damage)
		Citric acid (100 g/l)	Type	ULA (no damage)
		KOH (30 g/l)	Type	ULA (no damage)
		HCl (18%)	Type	ULA (no damage)
		Lactic acid (5%)	Type	ULA (no damage)
KOH (100 g/l)	Type	ULA (no damage)		
Resistance to staining	EN ISO 10545-14	Green agent	Type	5
		Red agent	Type	-
		Iodine (solution)	Type	5
		Olive oil	Type	5

# SLIPPERINESS DEKTON | STANDARD EN-14231

Finishing	Color	Determination	Value
Smooth Matt	Aura	USRV dry USRV wet	48 23
	Aura15		
	Danae		
	Domoos		
	Entzo		
	Fossil		
	Galema		
	Irok		
	Kadum		
	Kairos		
	Kelya		
	Keon		
	Keranium		
	Korus		
	Laos		
	Milar		
	Nayla		
	Nilium		
	Orix		
	Radium		
Sarey			
Sirocco			
Sterling			
Strato			
Soke			
Trilium			
Vegha			
Ventus			
Zenith			
Textured -Slate-like/limestone	Sirius	USRV dry USRV wet	49 22
	Gada		
	Edora		
	Dove		
	Valterra		
	Blanc Concrete		
Bromo			
Textured - Wood-like	Ananké	USRV dry USRV wet	44 21
	Borea		
	Aldem		
	Odin		
	Ariane		
	Bento		
	Makai		
	Aged Timber		
Velvet - Satin matt	Opera	USRV dry USRV wet	*

\* Pending test

## SLIPPERINESS DEKTON | DIN 51130 AND DIN 51097

Finishing	Color	Norm	Value (°)	Type
Smooth Matt	Domoos	DIN 51130 DIN 51097	7.2 8	R9 -
	Strato			
	Sirocco			
	Kadum			
	Keranium			
	Vegha			
	Ventus			
	Korus			
	Galema			
	Keon			
	Kelya			
	Zenith			
	Aura			
	Kairos			
	Aura15			
	Entzo			
	Danae			
Irok				
Sterling				
Sarey				
Trilium				
Orix				
Nayla				
Nilium				
Radium				
Textured -Slate-like/limestone	Sirius	DIN 51130 DIN 51097	6.7 9	R9 -
	Gada			
	Edora			
	Dove			
	Valterra Blanc Concrete			
Textured - Wood-like	Ananke	DIN 51130 DIN 51097	5.7 14	- A
	Borea			
	Aldem			
	Odin			
	Ariane			
	Bento			
	Makai			
	Aged Timber			
Velvet – Satin matt	Opera	DIN 51130 DIN 51097	*	*

\* Pending test

# SLIPPERINESS DEKTON |

Treatment	Color	Norm	Value/Class
Dekton Grip+	Aura 15 (*) Danae (*) Keon Kira (*) Kreta Laos (*) Lunar (*) Nayla (*) Nilium (*) Makai (*) Orix Sirocco (*) Soke Strato (*) Trilium (*) Vegha (*) Vera	DIN 51130 DIN 51097 UNE- ENV 12633 (Pendulum) ANSI A137.1 (DCOF)	R11 C > 45 ≥ 0.69

(\*) Confirm application for these colors.