

SM QUARTZ® SPECIFICATION SHEET

MANUFACTURER: Santa Margherita S.p.A.

MATERIAL: SM QUARTZ®

AVAILABLE IN:

Thickness (mm):

10, 12, 20 e 30

Thickness (inches):

3/8", 1/2", 3/4", 1-1/4" (nominal)

Size (mm):

slabs 3050 x 1400, 3200 x 1550

tiles* 300 x 300, 400 x 400, 600 x 300, 600 x 600

Size (inches):

slabs 120" x 55", 126" x 61" (nominal)

tiles* 12" x 12", 16" x 16", 24" x 12", 24" x 24" (nominal)

* other sizes and thicknesses available upon request

Finish:

The material can be supplied in polished, honed, brushed or textured finish.

Product description:

Slabs and tiles in agglomerated quartz made of 92% selected quartz grits mixed with polyester resin.

Color:

Aggregates such as glass, mirror and mother of pearl can be added to the quartz matrix. The shade is achieved by adding colored pigments with excellent stability to light. The material is not affected by most acids and shows high resistance to scratches, abrasion and staining.

Standard:

Standard EN 14617 “Agglomerated stone: Test methods”

Standard EN 15285:2008 “Agglomerated stone: Modular tiles for flooring and stairs (internal and external)”

Standard EN 15286:2013 “Agglomerated stone: Slabs and tiles for wall finishes (internal and external)”

Eco-friendly certification:

Due to the raw materials used and to the vibro-compression process, the material has achieved the “Greenguard Certification” (certificate n° 29306-410) and “Greenguard Gold Certification” (certificate n° 29306-420) issued by Greenguard Environment Institute. This means that the material can safely be used indoors, as its VOC emissions are well below the strict standard required by “Greenguard Gold Certification”.

The material is also NSF/ANSI Std. 51 certified: this means that contact with food is safe. The certification is issued by NSF (National Sanitation Foundation), an independent and non-profit organization dedicated to public health safety protection.

CHARACTERISTICS	STANDARD	VALUE	NOTES
Length and width	EN 14617-16	± 0,5 mm	Refers to tiles
Thickness	EN 14617-16	± 0,7 mm	Refers to tiles
Straightness of sides	EN 14617-16	± 0,3 mm	Refers to tiles
Rectangularity	EN 14617-16	± 0,9 mm	Refers to tiles
Center curvature	EN 14617-16	± 0,2% refers to length	Refers to tiles
Edge curvature	EN 14617-16	± 0,2% refers to length	Refers to tiles
Warping	EN 14617-16	± 0,2% refers to length	Refers to tiles
Apparent density	EN 14617-1	2000 - 2500 Kg/m ³	
Water absorption	EN 14617-1	≤ 0,10 %	
Flexural strength	EN 14617-2	28 - 100 MPa	
Abrasion resistance	EN 14617-4	25 - 33 mm	
Frost resistance	EN 14617-5	KM _{f25} 0,9 - 1,2	
Thermal shock resistance	EN 14617-6	Δm% ≤ 0,07 %	Test temperature: 70°C
		ΔR% ≤ 25 %	
Impact resistance	EN 14617-9	1,0 - 5,5 J	For thickness 10 - 12 mm
		≥ 2,0 J	For thickness 20 - 30 mm
Chemical resistance	EN 14617-10	C4	
Linear thermal expansion coefficient	EN 14617-11	21 - 50 x 10 ⁻⁶ °C ⁻¹	
Dimensional stability	EN 14617-12	Class A (<0,3 mm)	
Electrical resistivity	EN 14617-13	R _s ≥ 10 ¹⁰ Ω	Refers to surface
		R _v ≥ 10 ⁸ Ω m	Refers to volume
Compression resistance	EN 14617-15	150 - 250 MPa	
Mohs hardness	EN 101	up to 7 Mohs	
Thermal conductivity	EN 12524	1,3 W/(m K)	From tabulated values
Reaction to fire	EN 13501-1	A2fl-s1	Bfl-s1 for Vega, Victoria, Alberta
Slip resistance	EN 14231	≥ 35 (Dry)	
		≥ 3 (Wet)	
Slip resistance	DIN 51130	R9	For honed 320