

## TECHNICAL DATA FOR QUARTZ BASED ENGINEERED STONES

Product:	<b>METROPOLIS COPPER</b>
Brand name:	<b>SM QUARTZ®</b>
Composition:	<b>8 - 11 % Resin, 89 - 92 % Quartz</b>
Surface finish:	<b>Metropolis</b>
Slabs size (cm):	<b>320x155, 330x165</b>
Slabs thickness* (cm):	<b>2,0 - 3,0</b>



\* Other sizes and thicknesses available on request

Characteristics	Standard	Value	Notes
Apparent density	EN 14617-1	2300 - 2450 Kg/m <sup>3</sup>	
Water absorption	EN 14617-1	≤ 0,10 %	
Flexural strength	EN 14617-2	45 - 70 Mpa	
Abrasion resistance	EN 14617-4	27 - 29 mm	
Frost resistance	EN 14617-5	KM <sub>f25</sub> 0,9 - 1,2	
Thermal shock resistance	EN 14617-6	Δm% ≤ 0,07 %	Test temperature: 70°C
		ΔR <sub>f,20</sub> ≤ 20 %	
Impact resistance	EN 14617-9	2,0 - 3,0 J	For thickness 12 mm
		≥ 4,0 J	For thickness 20 mm, 30 mm
Chemical resistance	EN 14617-10	C4	
Linear thermal expansion coefficient	EN 14617-11	28 - 38 x 10 <sup>-6</sup> °C <sup>-1</sup>	
Dimensional stability	EN 14617-12	Classe A (<0,3 mm)	Referred to tiles 30x30x1,2 cm
Electrical resistivity	EN 14617-13	ρ <sub>s</sub> ≥ 10 <sup>10</sup> Ω	Referred to surface
		ρ <sub>v</sub> ≥ 10 <sup>8</sup> Ω m	Referred 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	ASTM E84	Class A	US standard
Reaction to fire	EN 13501-1	A2-s2,d0	Walls
Reaction to fire	EN 13501-1	A2 <sub>fl</sub> -s1	Flooring
Slip resistance	EN 14231	≥ 35 (Dry)	
		≥ 3 (Wet)	
Slip resistance	DIN 51130	R9	For Honed H9