










## Technical Characteristics

CHARACTERISTICS	TEST METHOD	UNIT OF MEASUREMENT	QUANTUM QUARTZ (Range of Values)
 Density	ASTM C 97	Kg/dm <sup>3</sup>	2.11-2.46
 Flexural Strength (Modulus of rupture)	ASTM C 99	Mpa	41.3-56.8
 Water absorption	ASTM C 97	%	.005-.02
 Compressive Strength	ASTM C 170	Mpa	134-240
Coefficient of Thermal Expansion	EN-103	20-70 <sup>0</sup> C AT (10 <sup>0</sup> /C)	239-341
 Hardness	EN 101	Moh's scale	6-7
 Resistance to deep abrasion	ASTM C241	Index	58-63
 Slip resistance	DIN 51130	HONED 400 POLISHED	R9 – R10
 Resistance to chemical acids	ASTM C 560		NOT AFFECTED
 Suitability for use in Kitchen Bench tops	EMPFEHLUNG XII BGVV		SUITABLE

**Note:** The values quoted above for Quantum Quartz<sup>®</sup> are average range of values of the different Quartz products tested.

# Material Safety Data Sheet

<b>M.S.D.S. (I) Identification</b>		
Product Identification	Composite – Stone Slabs & Tiles	
Manufacturer's Name	TECHNISTONE, a.s	
Manufacturer's Address	Bratri Stefanu 876 500 03 Hradec Kralove, CZECH REPUBLIC	
Telephone Number	+420 495 542 322	
Fax Number	+420 495 406 179	
<b>M.S.D.S. (II) Hazardous Ingredients</b>		
Hazardous Ingredients	% by Weight	% by Volume
Unsaturated Polyester	Less than 9%<	Less than 12%>
<b>M.S.D.S (III) Physical Data</b>		
Physical State	Solid	
Colour	Varied	
Appearance	Marble and / or Granite like	
Odour	Odourless	
Vapour pressure	Not Applicable	
Vapour Density	Not Applicable	
Evaporation Rate	Not Applicable	
Boiling Point	Not Applicable	
Freezing point	Not Applicable	
Miscibility	Not Applicable	
Specific Gravity	2476 kg/cu.m.	
<b>M.S.D.S.(IV) Fire &amp; Explosion Data</b>		
Is this product flammable ?	Not below 406 <sup>o</sup> C	
If yes, under what conditions?	Temperature over 406 <sup>o</sup> C	
Method of Extinguishing	Water, foam	
Flashpoint ( <sup>o</sup> C)	Not Applicable	
Method	ASTM E-84	
Upper Flammability Limit (% by Volume)	Not Applicable	
Lower Flammability Limit (% by Volume)	Not Applicable	
Hazardous Combustion By-products	Not applicable	
Self-Ignition Temperature ( <sup>o</sup> C)	484 <sup>o</sup> C	
Explosion Upon Impact Sensitivity	No	
Static Discharge Explosion Sensitivity?		
<b>M.S.D.S. (V) Reactivity</b>		
Is this Product chemically stable ?	Yes	
If No, under what conditions ?	Not Applicable	
Incompatibility with other substances?	Yes, leaching of colouration	
If Yes, What are these substances?	Hydroxides (i.e. Sodium, Potassium). Spills should be removed immediately	
Reactivity with other substances	Yes, degradation of material	
If Yes, what are these substances ?	Hydrofluoric Acid. Spills should be removed immediately	
Hazardous decomposition products	None	

<b>M.S.D.S (VI) Toxicological Properties</b>			
Entry through skin contact?	No	Product irritancy	See Sections (VII) and (VIII) below
Entry through eye contact?	No	Product sensitisation	No
Entry through skin absorption ?	No	Product carcinogenicity	No
Entry through inhalation ?	See Sections (VII) and (VIII) below	Product teratogenicity	No
Entry acute exposure effects ?	No	Product mutogenicity	No
Exposure Limit	See Sections (VII) and (VIII) below	Synergistic by-products	None

**M.S.D.S (VII) Preventive Measures Personal Protective Equipment.  
Follow local and State Law**

Gloves	Observe your local and state law for safe handling procedures.
Respirator	Use respirator or particular mask when cutting or abrading material
Eye Protection	Use eye protection with side shields when cutting or abrading material
Footwear	Use steel-toed safety footwear when handling slabs or tiles
Clothing	Observe your Local and State Law for safe handling procedures
Headgear	Use of hard-hat recommended. Follow your Local and State Law
Other	Additional information is available in ASTM E-1132-86

**Procedures and Controls Engineering Controls ASTM E-1132-86 Standard practice for health requirements relating to occupational exposure to quartz dust**

Handling Equipment and Procedures	Observe local safe handling procedures
Storage Requirements	Package and palletise tiles with appropriate nading material. Palletise slabs on A-Frame with appropriate banding material.
Waste Disposal Procedures	Observe Local and State regulations for disposal
Leak and Spill Response Procedures	Not Applicable
Fabrication Procedures	Use of diamond disc wet-saw strongly recommended and should be cut in a well ventilated area

**M.S.D.S. (VIII) First Aid Procedures**

Inhalation	The prolonged inhalation of airborne silica can cause the respiratory disease, silicosis, a progressive, incapacitating and sometimes fatal disease of lungs. The risk of lung disease increases if smoking is combined with silica inhalation. Always use a respirator or particular mask when cutting or abrading this material. If symptoms develop, seek medical assistance immediately.
Skin Contact	No known effect
Eye Contact	Use standard eye washing method to flush particles from eyes. Always use protection with side shields when cutting or abrading material.

**IMPORTANT SAFETY PRE CAUTIONS:**

Technistone urges everyone handling its product to follow and observe all Local, State and Federal Laws for safe handling of general equipment, personal protective equipment and first aid procedures.