

Physical-mechanical Characteristics

CONTENTS OF INDIVIDUAL CONSTITUENTS

PRODUCTION GROUP	TRADE NAME	NATURAL INORGANIC CONSTITUENT	WEIGHT %	BINDER	WEIGHT %	COLOR ADDITIVES	WEIGHT %
Sand	Elegance Gobi	Silica sand, glass	89.0 - 91.0	Resin	8.5 - 10.5	Color pigments	<0.1 - 0.5
Granite	Taurus	Granite, silica sand, quartz	90.3 - 92.0	Resin	7.5 - 9.2	Color pigments	<0.1 - 0.5
Mirrors	Starlight Brilliant Pearl	Crushed mirrors, glass, silica sand, quartz	88.2 - 91.2	Resin	8.0 - 10.8	Color pigments	<0.1 - 1.0
Crystal	Crystal Harmonia Noble Noble Pro	Quartz, silica sand, crushed mirrors, glass, granite	84.5 - 90.5	Resin	8.0 - 14.0	Color pigments	<0.1 - 1.7

SUITABILITY FOR INTERIOR USE AND CONTACT WITH FOOD

CONTACT WITH FOOD

SOURCE	ALL PRODUCTS TECHNISTONE®*
NSF USA	Food equipment materials – Food / Splash zone
National Institute of Public Health Czech Republic	Suitable for kitchen counter top application according EC regulations

HEALTH SAFETY

SOURCE	ALL PRODUCTS TECHNISTONE®*
GREENGUARD	The product complies with the criteria stipulated in the Standard Method V1.2-2017 of the Californian Department of Public Health as regards use in schools and office environment.
National Institute of Public Health Czech Republic	The product contains no volatile toxic compounds (VOC)
Tile Council of North America, Inc.	The product contains no volatile toxic compounds (VOC)
SCS Global Services	SCS Indoor Advantage Gold Certification

* Applicable to selected products.

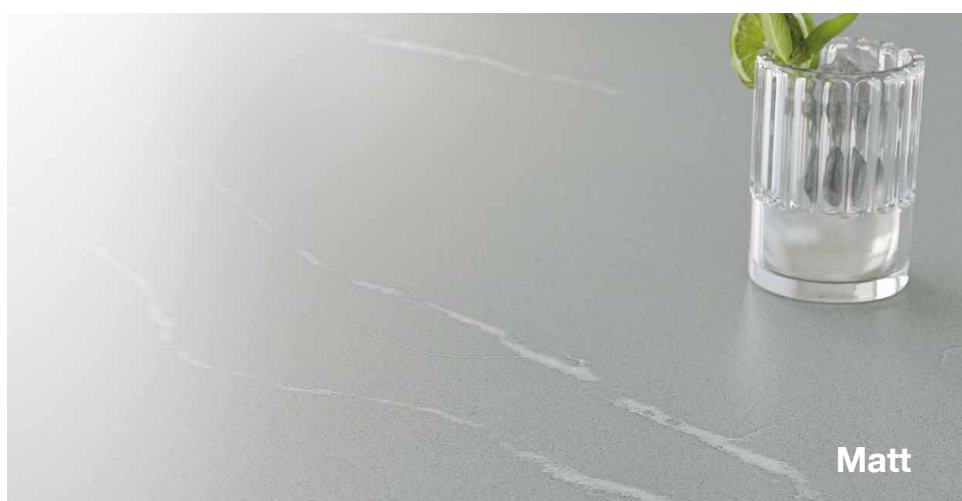
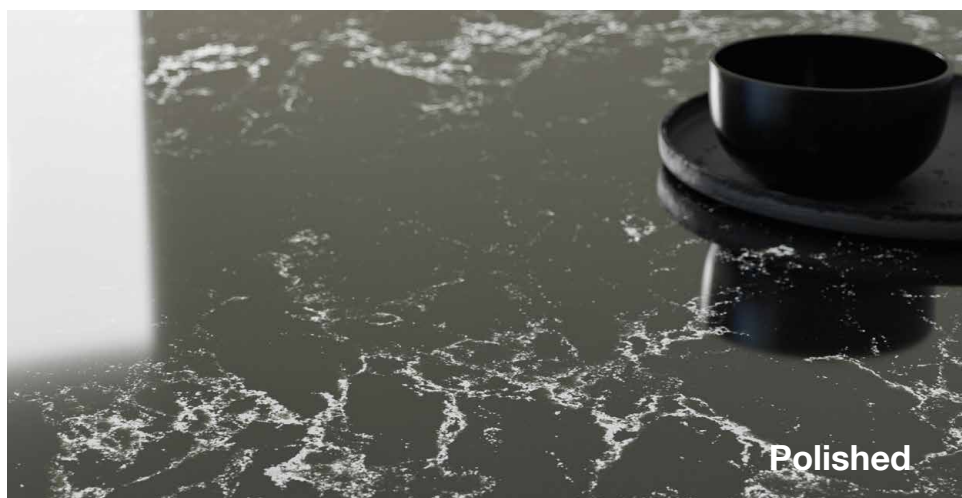
VALUES OF BASIC PHYSICAL-MECHANICAL PROPERTIES OF PRODUCTION GROUPS OBTAINED ON AVERAGE

PRODUCTION GROUP	BULK DENSITY (g/cm ³)		WATER ABSORPTION AFTER 48 HOURS (%)		FLEXURAL TENSILE STRENGTH (MPa)	
	Range Of Values	Average Value	Range Of Values	Average Value	Range Of Values	Average Value
Sand	2.35 - 2.44	2.39	0.01 - 0.05	0.03	47 - 71	57
Granite	2.40 - 2.58	2.48	0.01 - 0.07	0.04	31 - 50	42
Mirrors	2.31 - 2.45	2.38	0.01 - 0.05	0.02	36 - 68	49
Crystal (Noble)	2.20 - 2.37	2.32	0.01 - 0.05	0.03	63 - 93	80
Crystal (grains < 2.5 mm)	2.20 - 2.44	2.38	0.01 - 0.05	0.03	50 - 97	75
Crystal (grains ≥ 2.5 mm)	2.39 - 2.47	2.43	0.01 - 0.04	0.02	31 - 54	46
Implementing standard	EN 14617-1	EN 14617-1	EN 14617-1	EN 14617-1	EN 14617-2	EN 14617-2
Determined	Technistone laboratory	Technistone laboratory	Technistone laboratory	Technistone laboratory	Technistone laboratory	Technistone laboratory

The range of values corresponds with the lowest and highest result achieved within all products in the production group.

The average value does not correspond with the specific value in the range, but with the average of the results of all products within the production group.

PRODUCTION GROUP	THERMAL EXPANSION coefficient α (30 ° TO 60 °C) (10 ⁻⁶ /°C)	THERMAL EXPANSION coefficient α (20 ° to 130 °C) (10 ⁻⁶ /°C)	FROST RESISTANCE COEFFICIENT (AVERAGE) -	ABRASION RESISTANCE (AVERAGE) (mm ³)
Sand	21.8	30.0	90 - 110	6840
Granite	13.4	17.3	90 - 110	8125
Mirrors	17.5	22.7	90 - 110	7900
Crystal	17.5 - 34.6	22.7 - 40.2	90 - 110	6700
Implementing standard	EN 14617-11	EN 14617-11	EN 14617-5	EN 4157 (B)
Determined	TZÚS Plzeň	TZÚS Plzeň	Stone and Gravel Test Laboratory, Hořice	Stone and Gravel Test Laboratory, Hořice



Finishes