



MYSA[®] TECHNICAL DATA SHEET

This document presents verified technical data and performance results demonstrating compliance with applicable international testing standards.

MYSA® PRODUCT OVERVIEW

FIELD	SPECIFICATION
Product Type	Sintered Stone (Group Bla)
Standard Size	3200 x 1600mm
Thickness	12mm
Surface Finishes	Polished, Suede, Suede+, Textured, Graphite, Sheen+
Applications	Countertops, wall cladding, flooring, furniture, facades, vanity tops

STANDARDS & CERTIFICATIONS

- EN 14411 / ISO 13006 Group Bla classification
- EN 13501-1: Reaction to Fire, Class A1 (non-combustible)
- ISO 10545 series, EN 15771, ASTM equivalents
- EN 15804 +A2 / ISO 14025 (EPD Registered)
- ISO 9001 / 14001 / 45001 – Manufacturing Quality Systems

Technical values shown are typical of laboratory results and fall within standard production tolerances.

TECHNICAL DEFINITIONS

Group Bla (EN 14411 / ISO 13006)

Dry-pressed, impervious material with water absorption ≤ 0.5 %. These materials possess very high density, strength, chemical resistance, and frost durability.

- B = Dry-pressed forming method
- I = Low-absorption group (≤ 3 %)
- a = Impervious sub-group (≤ 0.5 %)

MYSA's tested value of 0.022 % confirms classification as Group Bla. Suitable for interior / exterior, horizontal / vertical applications including countertops, floors, and facades.

Product of Aurastone Pte Ltd, Singapore. Manufactured in partnership with Nabel Ceramic Co., Ltd.

MYSA® PHYSICAL & THERMAL PROPERTIES

PROPERTY	TEST METHOD	RESULT	REMARKS
Water Absorption (Boiling)	EN ISO 10545-3	0.022%	Impervious ($\leq 0.5\%$)
Linear Thermal Expansion (30–100 °C)	EN ISO 10545-8	Average $4.05 \times 10^{-6} / ^\circ\text{C}$	Stable under heat exposure
Thermal Shock Resistance	EN ISO 10545-9	No visible defects	10-cycle test passed
Frost Resistance	EN ISO 10545-12	No visible defects	Suitable for exterior use
Moisture Expansion	EN ISO 10545-10	No visible defects	Stable under humidity cycling
Unit Weight (12mm)	EPD (calc.)	$\approx 29.3 \text{ kg/m}^2$	Derived from density $\times$ thickness

MYSA® MECHANICAL PROPERTIES

PROPERTY	STANDARD	RESULT	REMARKS
Breaking Strength	EN ISO 10545-4	4,867 N	Strong Performance
Flexural Strength (MOR)	EN ISO 10545-4	49N/mm ²	> 35N/mm ² requirement
Impact Resistance (COR)	EN ISO 10545-5	0.85	High resilience
Deep Abrasion (unglazed)	EN ISO 10545-6	89 mm ³	Excellent wear resistance (lower is better)
Surface Abrasion (glazed)	EN ISO 10545-7	Class 4	High surface durability
Leachable Pb/ Cd	EN ISO 10545-15	< 0.1 / < 0.01 mg/dm ²	Food-contact safe

MYSA® CHEMICAL & STAIN RESISTANCE

AGENT	CONCENTRATION	STANDARD	RESULT	OBSERVATION
Hydrochloric acid	3 %	EN ISO 10545-13	Class LA	No alteration
Citric acid	100 g/L	EN ISO 10545-13	Class LA	No effect
Potassium hydroxide	30 g/L	EN ISO 10545-13	Class LA	Alkali-resistant
Ammonium chloride	100 g/L	EN ISO 10545-13	Class A	Stable to household agents
Sodium hypochlorite	20 mg/L	EN ISO 10545-13	Class A	Bleach-resistant
Stain Resistance	-	EN ISO 10545-14	Class 5	No visible stains (olive oil, iodine, green agent)

MYSA® FIRE & THERMAL PERFORMANCE

PARAMETER	STANDARD	CLASSIFICATION
Reaction to Fire	EN 13501-1	Class A1 (non-combustible)

MYSA® DIMENSIONAL & VISUAL TOLERANCES

CHARACTERISTICS	REQUIREMENT	MEASURED	NOTES
Side deviation	$\leq \pm 1.0$ mm	-0.1 to +0.1 mm	Excellent precision
Thickness tolerance	$\pm 0.3-0.5$ mm	-0.14 to +0.08 mm	Compliant
Straightness of sides	≤ 1.5 mm	1.0 mm	Within limit
Rectangularity	≤ 2.0 mm	1.0 mm	Compliant
Warpage	≤ 2.0 mm	≤ 0.8 mm	Flat within tolerance

MYSA® RADIOLOGICAL INDICATORS

INDEX	LIMIT	RESULT	COMMENT
Ira (Activity Index)	≤ 1.0	≤ 1.0	Within safe limits for residential/ commercial use
Iy (Gamma Index)	≤ 1.3	≤ 1.3	Below radiological concern threshold
Ia (Additional Index)	$\leq 0.2-0.6$	$\leq 0.3-0.6$	Safe for all applications including countertops

MYSA® ENVIRONMENTAL & SAFETY

PARAMETER	DECLARED	NOTES
Reference Service Life (RSL)	50 years	EN 15804 +A2 basis
Declared Unit	1 m ² of 12 mm slab	Average for product group
Recycling Rate (C3)	70 %	70% of the weight of the waste products will be treated by recycling
VOC Emission	None detected	Greenguard Gold Certified