



ODYSSEY

CRYSTALLINE SILICA FREE
ENGINEERED SLAB





WHY CRYSTALLINE SILICA-FREE?

THE FUTURE OF ENGINEERED STONE

Odyssey® Crystalline Silica-Free (CSF) Engineered Slabs, part of the Artivo Surfaces portfolio of premium brands, are manufactured with less than 1% crystalline silica. This next generation of engineered stone delivers the beauty, durability, and performance designers expect while supporting the future of fabrication.

THE ODYSSEY® ADVANTAGE



DESIGNED FOR SAFER FABRICATION

Eliminates crystalline silica while supporting a healthier work environment.



EXCEPTIONAL DURABILITY

Engineered for strength and long-lasting performance in every application.



BEAUTY WITHOUT COMPROMISE

Luxury marble-inspired designs with consistent color and natural movement.



LOW MAINTENANCE

Non-porous surface resists stains, scratches, and everyday wear.



INDOOR & OUTDOOR OPTIONS

Select colors are formulated for both interior and exterior applications.



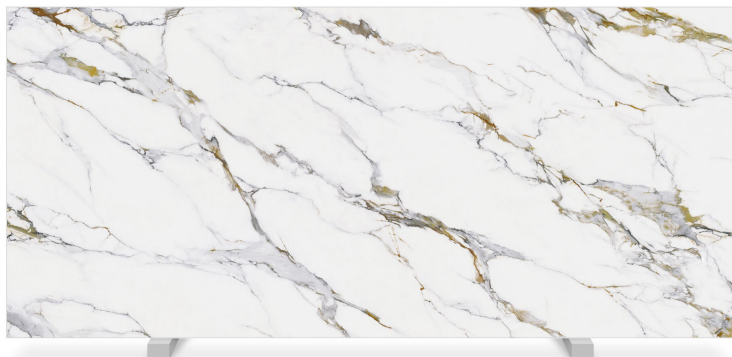
BUILT FOR TOMORROW

A forward-thinking solution aligned with the future of the surface industry.

Designed for today's projects.
Engineered for tomorrow's standards.

Odyssey® | Calacatta Jaipur

Crystalline Silica Free Engineered Slab



Size: **126" x 63"**

Available Thickness: **2cm**

Available Finish: **Polished**

Bookmatch Available: **Yes**



Bookmatch



AREA

Indoor

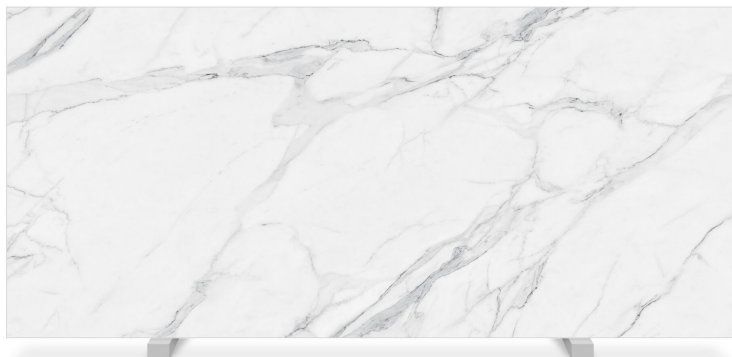
USE GUIDE

2CM (0.79") - IDEAL FOR

Countertops | Backsplashes | Shower Walls | Fireplace Surrounds | Feature Walls

Odyssey® | Calacatta Troy

Crystalline Silica Free Engineered Slab



Size: **126" x 63"**

Available Thickness: **2cm**

Available Finish: **Polished**

Bookmatch Available: **Yes**



Bookmatch



AREA

Indoor

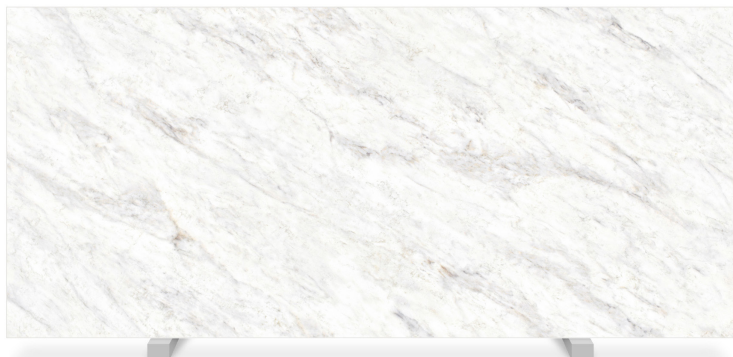
USE GUIDE

2CM (0.79") - IDEAL FOR

Countertops | Backsplashes | Shower Walls | Fireplace Surrounds | Feature Walls

Odyssey® | Calacatta Vermont

Crystalline Silica Free Engineered Slab



Size: **126" x 63"**

Available Thickness: **2cm, 3cm**

Available Finish: **Polished, Brushed**

Bookmatch Available: **Yes**



Bookmatch



AREA

Indoor

USE GUIDE

2CM (0.79") - IDEAL FOR

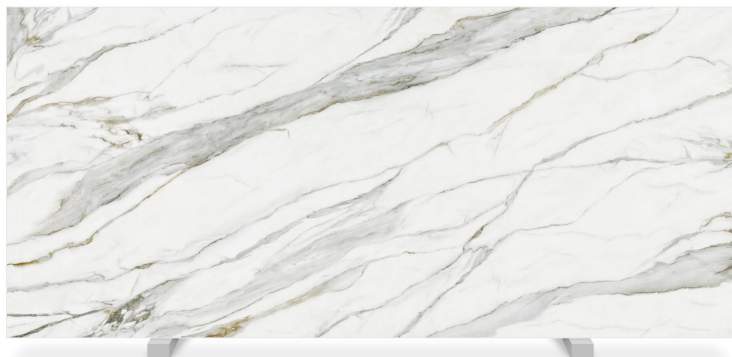
Countertops | Backsplashes | Shower Walls | Fireplace Surrounds | Feature Walls

3CM (1.18") - IDEAL FOR

Countertops

Odyssey® | Calacatta Verona

Crystalline Silica Free Engineered Slab



Size: **126" x 63"**

Available Thickness: **2cm**

Available Finish: **Polished**

Bookmatch Available: **Yes**



Bookmatch



AREA

Indoor

USE GUIDE

2CM (0.79") - IDEAL FOR

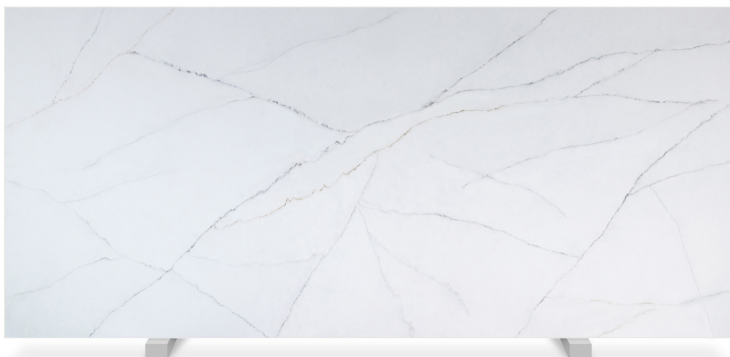
Countertops | Backsplashes | Shower Walls | Fireplace Surrounds | Feature Walls

Odyssey® | Kali

Crystalline Silica Free Engineered Slab



ODYSSEY



Size: **126" x 63"**

Available Thickness: **2cm, 3cm**

Available Finish: **Polished**

Bookmatch Available: **No**



AREA

Indoor

USE GUIDE

2CM (0.79") - IDEAL FOR

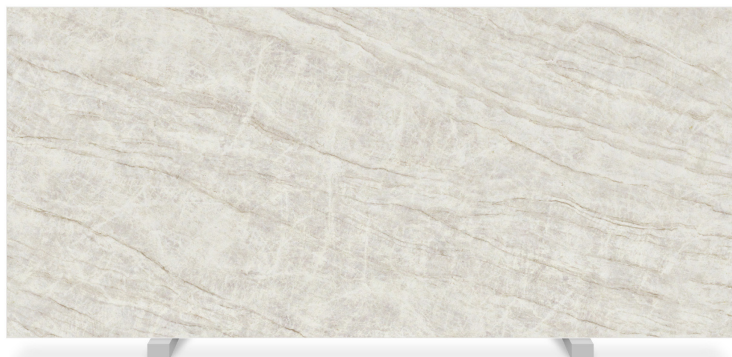
Countertops | Backsplashes | Shower Walls | Fireplace Surrounds | Feature Walls

3CM (1.18") - IDEAL FOR

Countertops

Odyssey® | Mumtaz Mahal

Crystalline Silica Free Engineered Slab



Size: **126" x 63"**

Available Thickness: **2cm, 3cm**

Available Finish: **Polished, Brushed**

Bookmatch Available: **Yes**



Bookmatch



AREA

Indoor

USE GUIDE

2CM (0.79") - IDEAL FOR

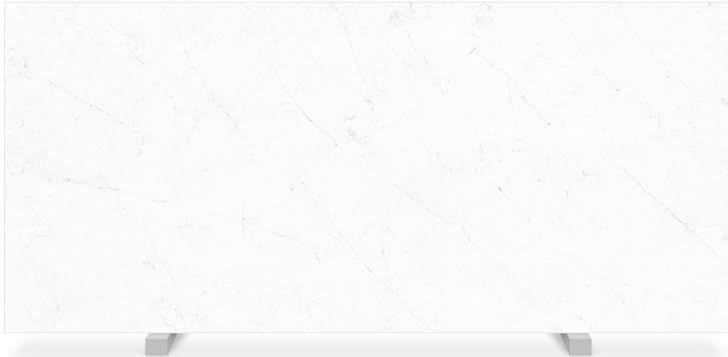
Countertops | Backsplashes | Shower Walls | Fireplace Surrounds | Feature Walls

3CM (1.18") - IDEAL FOR

Countertops

Odyssey® | Pharaoh

Crystalline Silica Free Engineered Slab



Size: **126" x 63"**

Available Thickness: **2cm, 3cm**

Available Finish: **Polished**

Bookmatch Available: **No**



AREA
Indoor

USE GUIDE

2CM (0.79") - IDEAL FOR

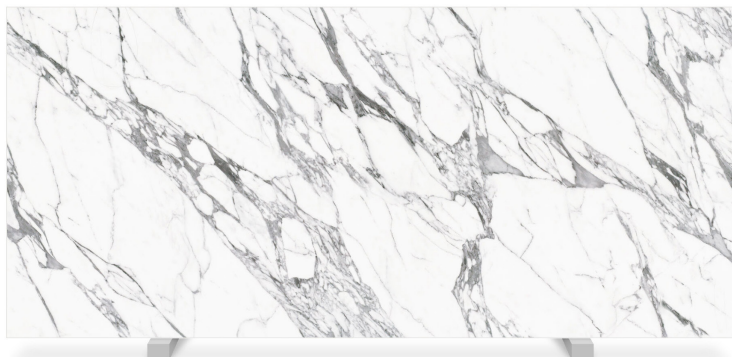
Countertops | Backsplashes | Shower Walls | Fireplace Surrounds | Feature Walls

3CM (1.18") - IDEAL FOR

Countertops

Odyssey® | Veracruz White

Crystalline Silica Free Engineered Slab



Size: **126" x 63"**

Available Thickness: **2cm**

Available Finish: **Polished**

Bookmatch Available: **Yes**



Bookmatch



AREA

Indoor

USE GUIDE

2CM (0.79") - IDEAL FOR

Countertops | Backsplashes | Shower Walls | Fireplace Surrounds | Feature Walls

DESIGNED FOR MORE

Odyssey® Indoor/Outdoor Slabs



One Surface.
Endless Possibilities.
Indoors and Out.

Designed to move beautifully from interior spaces to outdoor living, select Odyssey Crystalline Silica Free Engineered Slabs are made for countertops, kitchens, fireplaces, feature walls, patio bars, and outdoor entertaining areas—without sacrificing luxury, performance, or design continuity.



WHY INDOOR/OUTDOOR RATED MAKES A DIFFERENCE

Not every engineered surface is built for exterior use.

These select Odyssey slabs are designed for outdoor performance, helping resist sun exposure, weather, temperature shifts, and everyday wear—making them ideal for seamless indoor-to-outdoor design.



UV RESISTANT

Resists fading and discoloration from prolonged sun exposure.



WEATHER DURABLE

Engineered to withstand rain, heat, freeze/thaw cycles, and humidity.



THERMAL STABLE

Withstands extreme temperatures—ideal for hot and cold climates.



LOW CRYSTALLINE SILICA

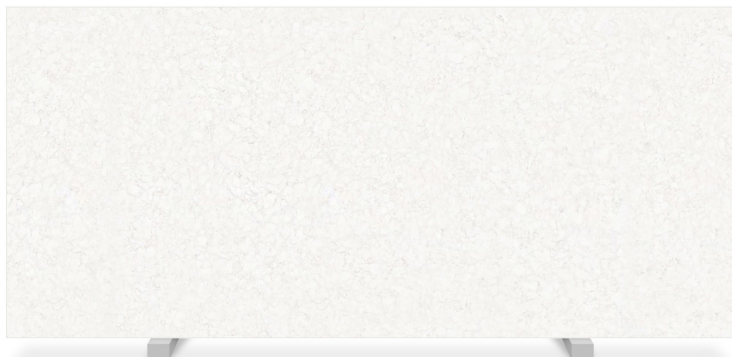
Manufactured with less than 1% crystalline silica to support evolving fabrication practices.

Odyssey® | Isla

Crystalline Silica Free Engineered Slab



ODYSSEY



Size: **126" x 63"**

Available Thickness: **2cm, 3cm**

Available Finish: **Velvet**

Bookmatch Available: **No**





AREA

Indoor / Outdoor

USE GUIDE

2CM (0.79") - IDEAL FOR

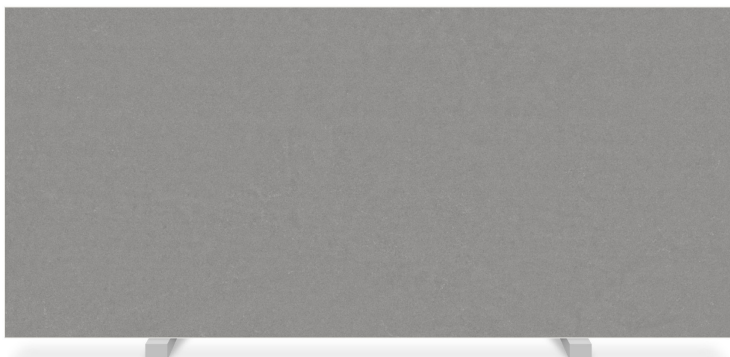
Countertops | Backsplashes | Shower Walls | Fireplace Surrounds | Feature Walls

3CM (1.18") - IDEAL FOR

Countertops

Odyssey® | Kai

Crystalline Silica Free Engineered Slab



Size: **126" x 63"**

Available Thickness: **2cm, 3cm**

Available Finish: **Velvet**

Bookmatch Available: **No**





AREA

Indoor / Outdoor

USE GUIDE

2CM (0.79") - IDEAL FOR

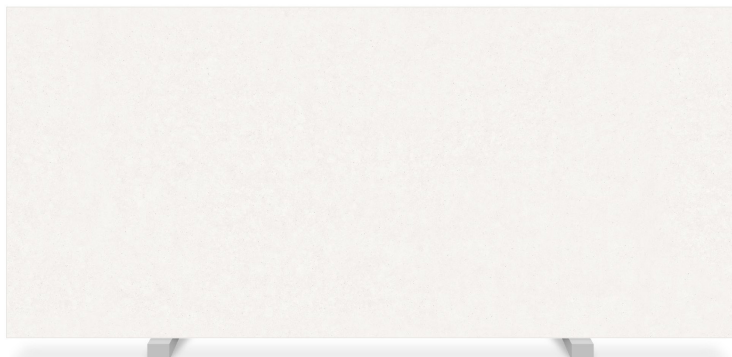
Countertops | Backsplashes | Shower Walls | Fireplace Surrounds | Feature Walls

3CM (1.18") - IDEAL FOR

Countertops

Odyssey® | Opus

Crystalline Silica Free Engineered Slab



Size: **126" x 63"**

Available Thickness: **2cm, 3cm**

Available Finish: **Velvet**

Bookmatch Available: **No**





AREA

Indoor / Outdoor

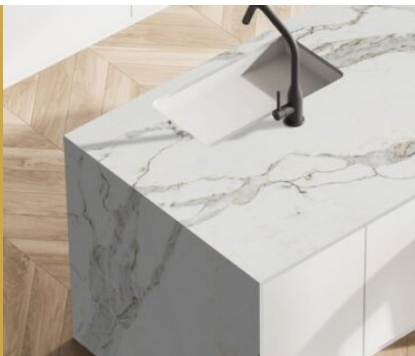
USE GUIDE

2CM (0.79") - IDEAL FOR

Countertops | Backsplashes | Shower Walls | Fireplace Surrounds | Feature Walls

3CM (1.18") - IDEAL FOR

Countertops



Product Specification Sheet

PERFORMANCE	TEST METHODS	RESULTS
APPARENT DENSITY	ASTM C97/C97M-09	2.16g/cm ³
WATER ABSORPTION	ASTM C97/C97M-09	0,05%
MOH'S HARDNESS	EN101	5
FLEXURAL STRENGTH	ASTM C880/C880M-09	99MPA
ABRASION RESISTANCE	ASTM C241/C241M-13	36
LINEAR THERMAL EXPANSION COEFFICIENT	ASTM C531-00 (2012)	22.66x10 ⁻⁶ / °C
CHEMICAL RESISTANCE	ASTMC650-04 (2009)	Not affected
BREAKING STRENGTH	ASTM C648-09	5660 N

DURABILITY & SAFETY TESTING		
IMPACT TEST	With Reference to ANSI 2124.6-2007 Section 4.2.1	No visible damage
CIGARETTE BURN TEST	With Reference to ANSI 2124.6-2007 Section 5.4	No visible damage
HEATED PAN TEST	With Reference to ANSI 2124.6-2007 Section 5.6	No visible damage



Crystalline Silica Free Engineered Slabs

SAFETY DATA SHEET

1. Product and Company Description

Product Name: ODYSSEY Crystalline Silica Free Engineered Slabs

Email: info@valiantsurfaces.com

2. Hazards Identification

Appearance/Odor: Artificial Stone Surfaces with no odor.

Potential Health Effects:

Artificial Stone surfaces products are not hazardous as shipped.

Acute Eye: Product in finished form does not present a health hazard via this route of entry.

Dusts and flying particles generated during cutting, grinding and forming may cause irritation and injury.

Acute Skin: Dusts generated from this product may cause skin irritation.

Acute Inhalation: Dusts from this product may cause irritation to respiratory tract, nose, throat and lungs.

Acute Ingestion: Not considered a potential health hazard via this route of entry. This product may cause gastrointestinal irritation if dusts are swallowed.

Aggravation of Pre-existing Conditions: Not Determined

3. Hazardous Chemical Composition

COMPONENT		CAS#	%COMPOSITION	%COMPOSITION
Amorphous Recycled Glass	Glass Sand / Glass Powder	65997-17-3	80-90	80-90
Unsaturated Polyester Resin	UPR	26123-45-5	8-16	8-16
Pigments	TiO2	1317-80-2	<1	0-2
	Fe2O3	1332-37-2	<1	
Additives	KH570	2530-85-0	<0.4	0.5-0.7
	TBPO	3006-82-4	<0.3	

Notes: Although no crystalline silica is added in the formula, <1% crystalline silica may be present due to contamination or chemical compound reactions during production.



Crystalline Silica Free Engineered Slabs

SAFETY DATA SHEET

4. First Aid Measures

Eye Exposure: Immediately flush eyes with copious amounts of water for a minimum of 15 minutes. Seek immediate medical attention if adverse effect occurs.

Skin Exposure: Wash skin with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Seek medical attention if adverse effect occurs.

Inhalation: Move person to fresh air. If necessary, use artificial respiration.

Ingestion: If the material is swallowed, seek medical attention or advice.

5. Fire Fighting Measures

Artificial Stone Surface Products can be combusted only with difficulty. Decomposition product resulting from the polymer and pigments degrading at elevated temperatures include various hydrocarbons, carbon dioxide, carbon monoxide and water. Fumes of metal oxides and mica particles could also be released.

Extinguishing Media

Water, Dry Chemical, CO₂, Foam.

Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus.

6. Accidental Release Measures

Cleanup and Disposal of Spill: Solid slabs can simply be gathered as necessary. If large amounts of dust or wastes are created by the cutting process, then vacuum or sweep up material avoiding dust generation by dampening spilled material with water to avoid airborne dust. Wear sufficient respiratory protection and protective clothing where necessary. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or local Waste Management Authority. Dispose of waste in accordance with local, state and federal regulations.

7. Handling and Storage

Handling/Storage: Avoid breathing dust. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Good industrial hygiene practices should be followed when handling this material. Product is heavy and breakable; handle with care to avoid injury and prevent damage.

Crystalline Silica Free Engineered Slabs

SAFETY DATA SHEET

8. Exposure Controls / Personal Protection

8.1 Control Parameters

Exposure standards *refer local state regulators

INGREDIENT	REFERENCE	TWA		STEL	
		ppm	mg/m3	ppm	mg/m3
CALCIUM OXIDE	SWA [AUS]	-	2	-	-
	SWA [Proposed]	-	1	-	-
EMERY (DUST) (A)	SWA [AUS]	-	10	-	-
IRON OXIDE FUME (FE ₂ O ₃) (AS FE)	SWA [AUS]	-	5	-	-
MAGNESIUM OXIDE (FUME)	SWA [AUS]	-	10	-	-
NON-RESPIRABLE FIBRES, INSPIRABLE DUST	SWA [AUS]	-	2	-	-
QUARTZ (RESPIRABLE DUST)	SWA [AUS]	-	0.05	-	-
QUARTZ (RESPIRABLE DUST) (PRECAUTIONARY ADVICE)	WorkSafe VIC	-	0.02	-	-
SYNTHETIC MINERAL FIBRES	SWA [AUS]	-	0.5 f/ml	-	-
TITANIUM DIOXIDE	SWA [AUS]	-	10	-	-
TITANIUM DIOXIDE	SWA [AUS]	-	10	-	-
TITANIUM DIOXIDE (INHALABLE)	SWA [Proposed]	-	1	-	-

8.2 Engineering Controls

Exposure standards *refer local state regulators

Avoid inhalation. Use in well-ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Wet cut, polish, sand, grind, or drill only. Maintain dust levels below the recommended exposure standard.

Personal Protective Equipment:

Eye / Face: If cutting or sanding with potential for dust generation, wear dust-proof goggles.

Hands: Wear PVC, rubber, or cotton gloves when handling material to prevent skin contact.

Body: Not required under normal conditions of use.

Respiratory: Avoid uncontrolled dry cutting, sanding, polishing, grinding, or drilling, if alterations are unavoidable use a half face (negative pressure) mask with minimum P2/N95 particle respirator & tools which have water suppression & on tool dust extraction with H class rating. Consultation with relevant State Worksafe offices for further details is recommended.



Crystalline Silica Free Engineered Slabs

SAFETY DATA SHEET

9. Physical and Chemical Properties

Physical Appearance: Artificial Stone

Odor: None

pH: N/A

Specific Gravity: 2.2-2.5

Water Solubility: Insoluble

Flash Point: 490°C

Melting Point: N/A

Boiling Point: N/A

Vapor Pressure: N/A

% Volatiles: N/A

Viscosity: N/A

10. Stability and Reactivity

Chemical Stability: Stable

Conditions to Avoid: None

Materials / Chemicals to Be Avoided: This product is incompatible with hydrofluoric acid. Silica will dissolve in hydrofluoric acid and produce the corrosive gas silicon tetrafluoride.

Hazardous Decomposition Products: Upon decomposition, various hydrocarbons, carbon dioxide, carbon monoxide fumes, and water may be released.

Hazardous Polymerization: Will not occur.

11. Ecological Information

Environmental Fate: Not Determined

Environmental Toxicity: Not Determined

12. Disposal Considerations

Waste Disposal Method: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose in accordance with federal, state and local requirements.

13. Transportation Information

Not classified as dangerous in the meaning of transport regulations



Crystalline Silica Free Engineered Slabs

SAFETY DATA SHEET

14. Regulatory Information

U.S. Federal Regulations

TSCA Inventory Status: In compliance with TSCA Inventory requirements for commercial purposes.

15. Other Information

National Fire Protection Association NFPA(R) and Hazardous Materials Identification System (HMIS) Hazard Ratings:

Health Hazard: 1

Flammability: 0

Reactivity: 0

Key Legend Information: IDLH Immediately Dangerous to Life and Health

N/A - Not Applicable PEL - Permissible Exposure Limit

ND - Not Determined TWA - Time Weighted Average

ACGIH - American Conference of Governmental Industrial Hygienists

STEL - Short Term Exposure Limit NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

TLV - Threshold Limit Value

IARC - International Agency for Research on Cancer

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.



Crystalline Silica Free Engineered Slabs

CARE AND MAINTENANCE

ODYSSEY Crystalline Silica Free Engineered Slabs surfaces are easy to maintain. ODYSSEY Crystalline Silica Free Engineered Slabs are a non-porous quartz material that is resistant to stains, heat, and scratching, but it is not indestructible, nor heat, scratch, or stain proof. Please follow the proper care and maintenance and some commonsense instructions to enjoy the beauty and durability of ODYSSEY Crystalline Silica Free Engineered Slabs surfaces for a lifetime.

ROUTINE CARE - Cleaning with soap and warm water on a regular basis will cleanse the surface and maintain its luster and sheen. Use a non-abrasive cleanser that does not contain bleach for day-to-day maintenance. Spills should be cleaned up immediately in the same manner for best results.

STAINS AND SPILLS - ODYSSEY Crystalline Silica Free Engineered Slabs is stain resistant though some spills and stains may be more difficult to remove than others. Especially if they have dried on the surface. For issues that require more than simply soap and water a non-abrasive scrub pad may be employed, such as Mr. Clean® Magic Eraser. Rinse thoroughly after use and wipe with a clean cloth.

For substances such as adhesive, gum or grease you may need to use a plastic scraper or putty knife to carefully scrape the material off the surface and then clean as above. Some recommended cleaners for tougher issues include Simple Green®, Formula 409® Surface Cleaner or denatured alcohol.

HONED FINISH AND DARKER COLORS - Honed finish and dark colored material require more maintenance and more frequent cleaning to maintain their appearance. Fingerprints or metal scuff marks will appear more readily and be more apparent. These marks can be removed in the same manner as above. Dark colors typically will show more readily dust, scuffs, and dirt than lighter colors. These will require maintenance more often to keep up their appearance.

HEAT - ODYSSEY Crystalline Silica Free Engineered Slabs are resistant to heat but not heat proof. It can withstand a normal cooking environment, but you should avoid placing hot pots and pans directly on the countertop, rather using a trivet or hot pad to protect the surface. Radiant heat such as a crockpot must always have a trivet between it and the surface to avoid damage. Do not place hot pots and pans directly on ODYSSEY Crystalline Silica Free Engineered Slabs as this may void the warranty.

Durability ODYSSEY Crystalline Silica Free Engineered Slabs are tough, but not indestructible. It is resistant to scratching, though please avoid cutting directly on the surface, rather employ a cutting board always. Do not use abrasive cleaners or pads to clean the surface as these may cause scratching. ODYSSEY Crystalline Silica Free Engineered Slabs are resistant to cracking although excessive force or pressure/weight can cause failure of a seam or material. Strong chemicals and solvents should be avoided and kept out of contact with a ODYSSEY Crystalline Silica Free Engineered Slabs surface as they may etch or discolor the material. Chemicals to avoid include but are not limited to acetone, nail polish remover, paint removers, bleach, oven cleaners, drain cleaners and other chemicals with a high alkaline or PH Level.

With regular maintenance and some common sense your ODYSSEY Crystalline Silica Free Engineered Slabs countertop will remain beautiful and perform for a lifetime!




ODYSSEY
CRYSTALLINE SILICA FREE

INSPIRED BY NATURE.
DESIGNED FOR THE FUTURE.

By  **ARTIVO**
SURFACES™

AVAILABLE THROUGH **WALKER ZANGER**  VIRGINIATILES



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