GNS CERAMICS
EXCLUSIVELY WHOLESALE

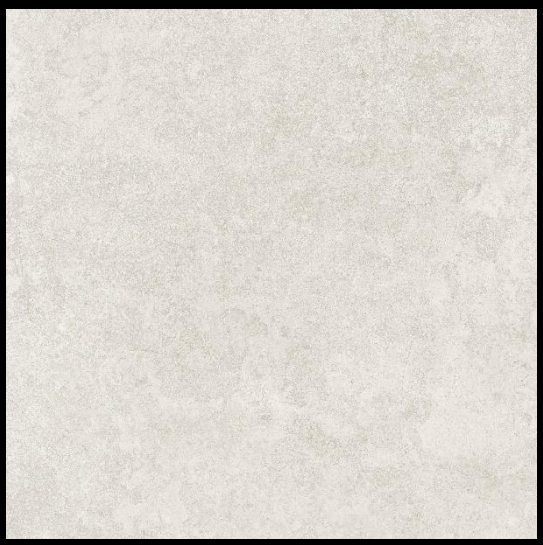
Avalon

For a subtle touch of elegance, look no further than the Avalon series. In a soft and refined glazed porcelain reproduction of natural stone, the three contemporary colours provide a relaxing aspect to your home. With the matt P4 finish the Avalon series is suitable to flow from inside to out.

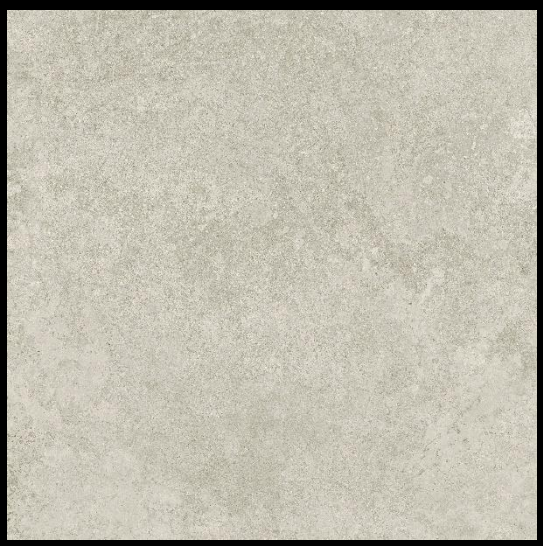




Avalon


Blanco Perlino


Silver Vein


Greige Desert Sand

600x600mm

300x600mm

Glazed Porcelain

Rectified Edge

V2 Variation

Matt Finish

Floor Cat. 4

P4

16

600x600mm

GNS Ceramics recommends that our retail shops pass on the following information to the installer and end-user.

Click or Scan for Installation Instructions

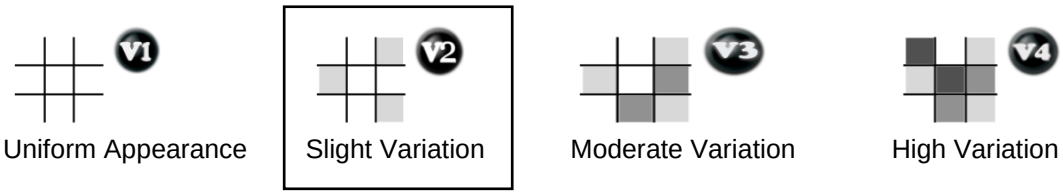
Ceramic tiles are only one component of a much larger building system. It is our experience that failure of any tiling system is very often the result of a combination of factors. For example; inappropriate design, type of substrate, surface preparation, temperature during installation, adhesives, incompatibility of products, product failure, environmental factors skill and knowledge of the installers etc; the latter being supplied or controlled by a variety of manufacturers and tradesmen. GNS Ceramics has no involvement in the design, selling and installation processes and once goods have been dispatched from our warehouse we have no control over where and how these products are used. As a result the project manager, and or the tiler are the only people in a position to ensure that all the components used in a project are compatible and that the product is installed in accordance with the Australian Building Code and the Australian Standards.

Installation Instructions for all types of tiles can be found in the GNS Ceramics Price List, and on our website. We suggest these are followed at all times.

Cleaning and Maintenance

Do not use abrasive cleaners and chemicals which could permanently scratch and damage the surface of the tile. For daily cleaning we recommend the use of a mild PH Neutral detergent. Should a more vigorous cleaning programme be required we recommend the use of a proprietary tile cleaner from a specialty tile supplier.

Colour & Pattern Variation Guide



Slip Resistance

The best way to minimise the risk of slipping is through safe design principals. This involves a risk management approach which evaluates the likelihood and consequence of an incident to occur. Slip resistive flooring is only one of the design components to consider, other design features should also be considered, including awnings, airlocks, matting and a suitable cleaning regime to reduce the extent of contaminates. Visual aids, warning signs, handrails and lighting, along with the footwear to be worn, should also be considered.

All ceramic tiles can be slippery, particularly when wet. This includes tiles, commonly used in wet areas such as bathrooms. It is important that customers be aware of the potential danger of wet ceramic tiles and seek advice from the retailer as to the level of slip-resistance of any particular tile, and its suitability for the intended application. If there is any doubt, tiles should be tested for slip-resistance immediately after being laid, under the conditions that they will be subject to during use. While tiles may achieve an acceptable standard in a laboratory test, it is quite probable that the performance in-situ will be less than expected, due to installation methods, wear & tear, cleaning regimes and unforeseen circumstances. Test results should therefore to be seen as a relative guide to estimate the merits of one tile versus another and should be used in conjunction with the Australian Building Code and the relevant Australian Standards. Further information on slip resistance is provided in the Australian Standards HB198:2014 - An Introductory guide to the slip resistance of pedestrian surface materials.

There are many factors beyond the control of the supplier that can affect the level of slip-resistance of tiles, or contribute to the incidents of injury through slipping. Consequently, the laboratory test results presented here must not be viewed to mean that GNS Ceramics Pty Ltd, is providing any warranty, nor will accept any liability for personal injury or accidents arising from the selection or installation of tiles under any circumstances.

Classes of Use

The classification has taken into account the recommendations of the Australian Standards; however, they are given for general guidance only. They are valid for the given application under **NORMAL CONDITIONS** and should not be taken to provide accurate product specifications for specific requirements.

WARNING: Other standards and building code requirements may affect your selection of tiles.

Consideration should be given to the footwear, type of pedestrian traffic and cleaning methods expected. Floors should be adequately protected against soiling from following trades during installation; they should also be protected against scratching dirt at the entrances to building by interposing footwear cleaning devices. For example, mats, shoe scrapers, static devices, etc.

CLASS 4 - Floor coverings that are walked on by regular traffic with some scratching dirt so that conditions are more severe than CLASS 3; For example, entrances, laundries with external access, living areas, entertainment areas, patio's, sales rooms, motels.

中国认可
国际互认
检测
TESTING
CNAS L1978

190000122473

检 测 报 告
TEST REPORT

报 告 编 号:
REPORT NO. : 25202300370

样 品 名 称:
NAME OF SAMPLE: 仿古砖 RUSTIC TILES

委 托 单 位:
APPLICANT: SANFI CERAMICS GROUP CO.,LTD.

检 验 日 期:
DATE OF TEST: 17/02/2023 – 24/02/2023 (dd/mm/yy)

国 家 建 筑 卫 生 陶 瓷 检 测 重 点 实 验 室
STATE KEY TESTING LABORATORY OF BUILDING CERAMICS AND SANITARY WARE
佛 山 海 关 综 合 技 术 中 心
COMPREHENSIVE TECHNOLOGY CENTRE OF FOSHAN CUSTOMS

佛 山 海 关 综 合 技 术 中 心
COMPREHENSIVE TECHNOLOGY CENTRE OF FOSHAN CUSTOMS
检 测 报 告
TEST REPORT

报告编号： 25202300370
Report No:

样品名称 Name of sample	仿古砖 RUSTIC TILES	名义尺寸 Nominal size (N)	60cm×60cm
表面特性 Nature of the surface	有釉砖 Glazed (GL)	工作尺寸 Work size (Sw)	600mm×600mm×9.4mm
类别 Group	BⅠa类，磨边砖 Group BⅠa, rectified tiles	样品描述 Description of Samples	样品完好,适合测试 The samples are sound, intact and fit for test.
样品标记 Mark of samples	—	样品数量 Quantity of samples	30 块 30 Pieces
委托单位 Applicant	SANFI CERAMICS GROUP CO.,LTD.	委托单位地址 Address of applicant	Technique Industrial Park, Xiqiao Town, Nanhai District, Foshan City, Guangdong Prtovince, P.R.
委托单位电话 Telephone of applicant	—	委托单位传真 Fax of Applicant	—
样品来源 Source of Samples	委托单位自送样品 Samples selected by applicant	接样日期 Received on	17/02/2023
检验依据 Test Standard	1. ISO 13006:2018 *Ceramic tiles – Definitions, classification, characteristics and marking* 2. GB 6566-2010《建筑材料放射性核素限量》		
检验结论 Conclusion of Test	1.样品经检验,所检验项目的检验结果符合 ISO 13006:2018 标准中附录 G 的规定。 The results conform to the requirement of Annex G of standard ISO 13006:2018 with respect to the test items. 2.样品经检验,检验结果符合 GB 6566-2010 标准中 A 类装饰装修材料要求。 The results conform to the requirement of Class A decorative materials of standard GB 6566-2010.		
检验单位盖章 Stamp of Test Unit	日期：27/02/2023 Date:	检验单位联系方式 Address of Test Unit	地址：广东省佛山市禅城区魁奇一路澜石（国际）金属交易中心十八座二楼 Address： 2/F, Building 18, Lanshi International Metal Exchange Center, Kuiqiyi Road, Chancheng District, Foshan, Guangdong, China (528000) 电话（Tel）：86-757-83960558 86-757-83827991 传真（Fax）：86-757-83827971 邮箱（E-mail）：fsiqtc@163.com
声明 Notes	1、我们已尽所知所能实施上述检验，不能因签发本报告而免除有关各方根据合同和法律所承担的责任和义务； All inspections are carried out conscientiously to the best of our knowledge and ability. This report does not in any respect absolve the other related parties from his contractual and legal obligations. 2、未经本实验室书面许可，不得部分复制本报告； This report shall not be reproduced, except in full, without the prior written approval from the issuing laboratory. 3、本报告仅是样品的检测结果。 The results in this report apply to the samples only. 4、本报告所述的样品信息为委托单位自行声明，实验室不负责其真实性。 The product information are declared by applicant，and laboratory is not responsible for the authenticity.		

检验 Tested by _____ 审核 Inspected by _____ 批准 Approved by _____

FSIQTC-T 2(1)/A

ISO 13006:2018 *Ceramic tiles – Definitions, classification, characteristics and marking*

条款 Clause	性能 Properties	检验方法 Test Method	要求 Requirements		检验结果 Results	判定 Verdicts
附录 G 表 G.1 Annex G Table G.1	**尺寸和表面质量** **Dimensions and surface quality**					
	长度和宽度 **Length and Width** 每块砖的平均尺寸相对于工作尺寸的允许偏差 The deviation, of the average size for each tile (4 sides) from the work size	ISO10545-2:2018	N≥15cm	±0.3%	0~+0.04%	P
				±1.0mm	0~+0.2mm	P
	厚度 **Thickness** 每块砖厚度的平均值相对于工作尺寸的最大允许偏差 The deviation of the average thickness of each tile from the work size thickness	ISO10545-2:2018	N≥15cm	±5%	-1.2%~+0.7%	P
				±0.5mm	-0.1mm~+0.1mm	P
	边直度 **Straightness of sides** 相对于工作尺寸的最大允许偏差 The maximum deviation from straightness related to the corresponding work sizes	ISO10545-2:2018	N≥15cm	±0.3%	-0.02%~+0.02%	P
				±0.8mm	-0.1mm~+0.1mm	P
	直角度 **Rectangularity** 相对于工作尺寸的最大允许偏差 The maximum deviation from Rectangularity related to the corresponding work sizes	ISO10545-2:2018	N≥15cm	±0.3%	+0.05%~+0.08%	P
				±1.5mm	+0.3mm~+0.5mm	P
	表面平整度: 最大允许偏差 **Surface flatness**: The maximum deviation from flatness					
	a)对于由工作尺寸计算的对角线的中心弯曲度 a) centre curvature, related to diagonal calculated from the work size;	ISO10545-2:2018	N≥15cm	±0.4%	+0.02%~+0.04%	P
				±1.8mm	+0.2mm~+0.3mm	P
	b)对于由工作尺寸计算的边弯曲度 b) edge curvature, related to the corresponding work sizes;	ISO10545-2:2018	N≥15cm	±0.4%	+0.02%~+0.05%	P
				±1.8mm	+0.2mm~+0.3mm	P
	c)对于由于工作尺寸计算的对角线的翘曲度 c) warpage, related to diagonal calculated from the work size.	ISO10545-2:2018	N≥15cm	±0.4%	-0.09%~-0.08%	P
				±1.8mm	-0.8mm~-0.6mm	P
	表面质量 **Surface quality**	ISO10545-2:2018	至少有 95%的砖其主要区域无明显缺陷 A minimum of 95% of the tiles shall be free from visible defects inspected vertically at 1.0m.		100%	P

ISO 13006:2018 *Ceramic tiles – Definitions, classification, characteristics and marking*					
条款 Clause	**性能 Properties**	**检验方法 Test Method**	**要求 Requirements**	**检验结果 Results**	**判定 Verdicts**
附录 G 表 G.1 Annex G Table G.1	**物理性能 Physical properties**				
	吸水率 质量分数 **Water absorption** Percent mass fraction	ISO 10545-3:2018	E_v≤0.5%	0.07%	P
			单个值不大于 0.6% Individual maximum 0.6%	0.06%~0.08%	P
	破坏强度/N Breaking strength, in N	ISO 10545-4:2019	≥1300	2379	P
	断裂模数/(N/mm²) Modulus of rupture, in N/mm² 不适用于破坏强度≥ 3000N 的陶瓷砖 Not applicable to tiles with breaking strength ≥ 3000N	ISO 10545-4:2019	平均值≥35 Minimum 35	46.3	P
			单个值≥32 Individual minimum 32	44.6~47.3	P
	耐磨性 Abrasion resistance 用于地面的有釉砖的表面耐磨性 Resistance to surface abrasion of glazed tiles intended for use on floors	ISO 10545-7:1996	报告耐磨级别 Report abrasion class	2 级 Class 2	—
			报告耐磨转数 Report cycles passed	600	—
	抗釉裂性： 有釉砖 **Crazing resistance**: glazed tiles	ISO 10545-11:1994	应通过此项测试 Required	样品经试验，无裂纹或剥落 Fully resistance	P

GB 6566-2010《建筑材料放射性核素限量》				
条款 Clause	**性能 Properties**	**要求 Requirements**	**检验结果 Results**	**判定 Verdicts**
4.4.1	内照射指数 I_{Ra} Internal exposure index I_{Ra}	—	0.4	—
4.4.2	外照射指数 I_γ External exposure index I_γ	—	0.7	—
3.2.1	A 类装饰装修材料 Class A decorative materials	I_{Ra}≤1.0 I_γ≤1.3	符合 Complied	P

用语说明 Possible test case verdicts
1. P(ass)： 合格 *Test item does meet the requirement.*
2. F(ail)： 不合格 *Test item does not meet the requirement.*
3. —: 未进行判定 *Verdict was not carried out.*
4. N/A： 不适用 *Test case does not apply to the test item.*

*** ***

报告结束 End of Test Report

CERAMIC TEST LAB

Slip Test Report S230025

Issue Date: 12/09/2023

Requested by:	GNS Ceramics
Address:	3 Cox Place Glendenning
Sample number:	23464739
Sample name:	6AVLGEM
Sample description:	GT60S064ZA AVALON GREIGE DESERT SAND MATT P4 600X600  Attached photo of one specimen. Cut down to the size (300x300mm). Flat surfaces.
Slider Used:	96

Test Date	12/09/2023	**Temperature (Laboratory)**	20.5°C
Pendulum Friction Tester:	Munro Stanley Portable Skid Resistance Tester S/N: 2081 Calibration Date: 3 November 2022		

Test Specimen (Unfixed)	**Pendulum Swing Results (BPN)**					**Mean (BPN) (**last 3 swings)	**Classification According to AS4586-2013**	
	1	**2**	**3**	**4**	**5**			
Tile 1	51	51	52	51	51	51	**P4**	
Tile 2	50	50	50	50	49	50		
Tile 3	50	50	50	49	49	49		
Tile 4	51	51	51	51	50	51	**SRV (BPN)**	50
Tile 5	50	49	49	48	48	48		

All samples were tested unfixed on a flat and level surface, no slope correction required.
Each tile cleaned with water and light scrubbing prior to testing. SRV= Slip Resistance Value

Testing performed in Accordance with AS4586-2013 Amd 1:2017, Appendix A Wet Pendulum Test Method with a 96 Rubber slider, conditioned with P400C paper dry, followed by 3 µm wet lapping film. Results relate only to the items tested. Test location on the central surfaces of specimens.

Test Location:	Ceramic Test Lab, 175 Racecourse Rd, Rutherford, NSW, 2320 Australia		
Test Officer	Luke Crisp	**Authorised by:**	Hong Lu

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY NAME: Guangdong Sanfi Ceramics Group Co., Ltd.
COMPANY ADDRESS: Xiqiao Science & Technology Industrial Land,
Foshan City,Guangdong Province,P.R.China
TELEPHONE: +86-757-8253 3906

PRODUCT NAME: Sanfi Tiles
OTHER NAME: Ceramic Tiles
PRODUCT USE: Building Materials-use as floor covering and decoration

2. HAZARDS IDENTIFICATION SUMMARY

The manufacturing process of Sanfi tiles involves mixing raw materials predominantly clays and other natural occurring minerals with water and the trace number of inorganics, pressing into desired shapes, and then drying prior to glazing and decorating. After that the tiles are fired in a high temperature kiln. The inorganics are burning out during firing. All Sanfi tiles are made in accordance with International and Australian Standards. The finished, fired tiles are odorless, stable, non- flammable, and pose no immediate hazard to health.

The fired tiles do not contain asbestos. They do not release hazardous materials after installation and are not considered hazardous waste should disposal be necessary under normal conditions. Respiratory, hand and eye protection may be needed to prevent excess exposure to airborne particulates if dust is produced by cutting the tiles during installation or if dust is produced by any other operations, including demolition/removal projects.

GHS Classification	Hazard Statements	Pictogram
Crystalline Silica: Category 3 (Respiratory tract irritation) (H335)	May cause respiratory irritation.	
Categories 1A(Carcinogenicity)(H372)	Causes damage to organs (lung/respiratory) through prolonged or repeated exposure (inhalation).	
Carcinogenicity Category 1A (H350)	May cause CANCER (inhalation).	No

Definition

Term	Definition
GHS	Global Harmonized Standard
OSHA	Occupational Safety and Health Administration
PEL	Permissible exposure limits. They limits are established by OSHA
IDLH	Immediately dangerous to life or health. It is defined by NIOSH as exposure to airborne contaminants that are "likely to cause death or immediate or delayed permanent adverse health effects or prevent escape from such an environment."
NIOSH	US National Institute for Occupational Safety and Health
TLV	Threshold limit value
ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
LFL	Lower Flammable Limits
TB	Tuberculosis
IRAC	International Agency for Research on Cancer

3. COMPOSITION, INFORMATION OF INGREDIEN

Ingredient	CAS Registry Number
α-quartz as a major crystalline	14808-60-7
Mullite as a trace crystalline	1302-93-8
Glass (amorphous)	60676-86-0

The tile contains the following major elements:

wt%	Na_2O	MgO	Al_2O_3	SiO_2	P_2O_5	SO_3	K_2O	CaO	TiO_2	Fe_2O_3	L.O.I	Sum
Tile	2.46	0.43	18.51	70.44	0.07	<0.01	4.05	0.19	0.65	1.51	0.31	98.62

The tile contains the following trace elements:

Element	ppm	Element	ppm
V	50	Zr	416
Cr	59	Nb	22
Mn	492	Ba	808
Co	68	La	55
Ni	13	Ce	68
Zn	183	Nd	37
Ga	25	W	732
As	44	Tl	15
Rb	214	Pb	30
Sr	106	Th	22
Y	40	U	12

4. FIRST AID MEASURES

IF ON SKIN OR CLOTHING: Wash thoroughly after working with tiles.
IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a doctor for treatment advice.
IF INHALED: Remove to fresh air if exposed to large amounts of tile dust. Administer artificial respiration if breathing has stopped. Keep victim at rest. Call a doctor for treatment advice.
IF SWALLOWED: Not applicable for intact tiles.

Have emergency eyewash station available in area where tiles are cut.

5. FIRE FIGHTING MEASURES

Flash Point (Method Used)	Not applicable
Autoignition Temperature	Not applicable
Flammable Limits (% by Volume in Air)	LFL - not applicable
Fire Extinguishing Media	None required Non-flammable
Special Fire Fighting Procedures	None required
Fire and Explosion Hazards	None

6. ACCIDENTAL RELEASE MEASURES

Avoid creating excessive dust during cutting tiles. Clean up dust with a vacuum system with a High-efficiency particulate air filter vacuum or damp sweeping. See Section 8 concerning personal protection information for clean-up.

7. HANDLING AND STORAGE

HANDLING: When cutting, grinding, use only in a well-ventilated area. Minimize dust generation and accumulation. Use wet cutting methods to reduce generation of dust. Use respiratory protection in the absence of effective engineering controls.

STORAGE: Do not store near acids. If tiles contact some acids, damage/discoloration to the surface may occur. Shelf life is unlimited.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Major Ingredient	OSHA PEL	NIOSH IDLH	ACGIH TLV*	Units
Crystalline silica as quartz -respirable fraction	$\frac{10}{\%SiO2 + 2}$	0.05	0.025	mg/m^3
Total dust	$\frac{30}{\%SiO2 + 2}$	No	No	mg/m^3

* 2006 Edition, respirable fraction to be determined as per Appendix D of ACGIH TLV.

ENGINEERING CONTROLS/. PERSONAL PROTECTION

VENTILATION: Use adequate ventilation to keep exposure to dust below recommended exposure levels. Avoid inhalation of dust. The highest probability of silica exposure occurs during installation using dry cutting methods or during removal of installed tile. Wet cutting methods are recommended. EYE PROTECTION - Safety goggles or glasses with side shields.
CLOTHING - Long-sleeved shirt and long pants, Chemical-resistant footwear plus socks GLOVES -
Cotton or leather gloves,
RESPIRATOR – Not required when handled under normal conditions. When handling in enclosed areas with inadequate ventilation, use a dust/mist filtering respirator.

NOTE: Personal protection information in Section 8 is based on general information for normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the assistance of an industrial hygienist or other qualified professional be obtained.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brittle solid; color may vary
Odor	Odorless
Melting Point	Not Available
Boiling Point	Not applicable
Vapor Pressure	Not applicable
Vapor Density (Air = 1)	Not applicable
Solubility in Water	Insoluble
Percent Volatile by Volume	Not applicable

10. STABILITY AND REACTIVITY

Stability	Stable in current form.
Conditions to Avoid	Avoid contact with acids (e.g., acetic, hydrofluoric, etc.)
Incompatibility (Materials to Avoid)	Avoid contact with acids (e.g., acetic, hydrofluoric, etc.)
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	None

11. TOXICOLOGICAL INFORMATION

Primary Routes of Exposure	None for intact tile. Inhalation and potential exposure to eyes, hands, or other body parts if contact is made with broken tile, and/or during procedures involving the cutting of tiles, and/or for operations involving the removal of installed tiles.
Acute Effects	No acute effects from exposure to intact tile are known.
Chronic Effects	No chronic effects are known for exposure to intact tile
Potential Adverse Interactions	Silicosis may be complicated by severe mycobacterial or fungal infections and result in tuberculosis (TB). Epidemiologic studies have established that silicosis is a risk factor for developing TB. Any existing respiratory or pulmonary diseases may be complicated by exposure to respirable crystalline silica. Smoking may increase the risk of adverse effects if done in conjunction with occupational exposure to silica dust at or above permissible exposure limits.
Carcinogen Status	Respirable crystalline silica is classified by the International Agency for Research on Cancer as a Group I Carcinogen (carcinogenic to humans). The National Toxicology Program (9th Report) lists respirable crystalline silica as “Known to be a Human Carcinogen”. NIOSH have recommended that crystalline silica be considered a potential occupational carcinogen.
Overview of Animal Testing	Short term experimental studies of rats have found that intratracheal instillation of quartz particles leads to the formation of discrete silicotic nodules in rats, mice, and hamsters.

Oral (silica) Lethality
LD50 Rat oral >22,500 mg/kg LD50 Mouse oral >15,000 mg/kg
LC50 Carp >10,000 mg/l (per 72 hr.)

12. ECOLOGICAL INFORMATION

No information available currently.

13. DISPOSAL CONSIDERATIONS

Waste should be disposed of in a landfill certified to accept such materials in accordance with federal, state, and local regulations.

14. TRANSPORT INFORMATION

D.O.T Shipping Name	Not applicable
Hazard Class	Non-regulated (for disposal purposes material is non-hazardous Class III regulated material)
ID Number	Not applicable
Marking	Not applicable
Label	None
Placard	None
Hazardous Substance/RQ	Not applicable
Shipping Description	Ceramic Tiles
Packaging References	None

15. OTHER INFORMATION

Global Harmonization Identification System Health: 3 Fire: 4
Reactivity: 4
Hazardous Material Identification System Health: 1 Fire: 0
Reactivity: 0
National Fire Protection Association Health: 1 Fire: 0
Reactivity: 0

16. REVISION HISTORY

Current Revision No.	Revision Details	Date
1		28 May 2023