

TEST REPORT

No. : XMIN2401000161CM01_EN

Date : 2024-04-09

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CUSTOMER NAME: YDL AUSTRALIA PTY LTD
ADDRESS: 65 BABBAGE DR, DANDENONG SOUTH VIC 3175

Sample Name : SILICA-FREE SURFACE(UNDER 1% CRYSTALLINE SILICA)
Manufacturer : XIAMEN YADONGLONG IMP.&EXP. CO., LTD
Material : SILICA-FREE SURFACE(UNDER 1% CRYSTALLINE SILICA)

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : SDFS2401000817FF, CANIN24002091401
Date of Receipt : 2024-01-25
Testing Period : 2024-01-25 ~ 2024-03-05
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co.,Ltd. Xiamen Branch.

Bryan Hong
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result
1	Shod Ramp Test	DIN EN 16165:2023-02 Annex B	Ramp test value α_{sh} od: 4° Slip resistance class: /
2	Stain Resistance Test	Refer to CSA B45.5-17/IAPMO Z124-2017 Section 5.11	See result
3	Cigarette Test	Refer to CSA B45.5-17/IAPMO Z124-2017 Section 5.14	No visible damage
4	Radioactivity	GB 6566-2010	See result
5	Mohs Scratch Hardness	Refer to ASTM C1895-20	See result
6	Wet-Barefoot Inclining Platform Test	Refer to AS 4586-2013 Amdt 1-2017 Appendix C	Critical angle of inclination: 5.7°
7	Oil-Wet Inclining Platform Test	AS 4586-2013 Amdt 1-2017 Appendix D	Critical angle of inclination: 4.1° Classification: /
8	Wet Pendulum Test	AS 4586-2013 Amdt 1-2017 Appendix A	SRV "wet": 10 Class: P0
9	Dry Floor Friction Test	AS 4586-2013 Amdt 1-2017 Appendix B	0.33 Classification: D0
10	Resistance to Salts Attack	Refer to AS/NZS 4456.10:2003	Mass loss: 0.00 %
11	Resistance to Dry Heat	Refer to EN 13310:2015+A1:2018	No visible damage



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No.	Test Item	Test Method	Result
12	Surface Burning Characteristics*	ASTM E84-23c	Class A
13	Fire classification*	EN 13501-1:2018	Reaction to fire classification: B-s1, d0
14	Asbestos*	With reference to AS 4964-2004, analysis was performed by PLM.	Negative

Note: * test project/method was carried out by subcontractors.

Original Sample Photo:



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1. Test Item: Shod Ramp Test

Sample Description: See photo

Test Method: DIN EN 16165:2023-02 Determination of slip resistance of pedestrian surfaces -

Methods of evaluation Annex B Shod ramp test

Test Condition:

Specimen: 500mm×500mm, 2pcs form a testing surface 1000mm×500mm, see photo

Test surface: see photo

Test result:

Test item(s)	Test result(s)	Slip resistance class
Shod Ramp Test	Ramp test value α_{shod} : 4°	/

DIN EN 16165:2023-02 NB.2 Classification of the results by shod ramp test:

Test result α_{shod}	Slip resistance class
$6^\circ \leq \alpha_{shod} \leq 10^\circ$	R9
$10^\circ < \alpha_{shod} \leq 19^\circ$	R10
$19^\circ < \alpha_{shod} \leq 27^\circ$	R11
$27^\circ < \alpha_{shod} \leq 35^\circ$	R12
$35^\circ < \alpha_{shod}$	R13



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2. Test Item: Stain Resistance Test

Sample Description: See photo

Test Method: Refer to CSA B45.5-17/IAPMO Z124-2017 Section 5.11

Test Condition:

Specimen: 100mm×100mm

Test reagents: see table 1

Contact time: 16h

Test Result:

Stain resistance total rating: 52; The maximum stain depth: 0.02mm

Table 1: Test result of stain resistance test

Reagent	Rating	
	Covered	Uncovered
Black crayon	1	1
Black liquid shoe polish	3	3
Blue washable Ink	1	1
Gentian violet solution	5(stain depth:0.00mm)	5(stain depth:0.01mm)
Beet juice	1	1
Grape juice	1	1
Lipstick	3	3
Hair dye	5(stain depth:0.01mm)	5(stain depth:0.01mm)
Iodine solution	5(stain depth:0.02mm)	5(stain depth:0.02mm)
Wet tea bag	1	1
Total rating	52 (The maximum stain depth: 0.02mm)	

Note: Cleaning procedures:

1. The specimen shall be washed with tap water and cheesecloth or soft bristle brush using 20 scrub cycles with normal hand pressure and dried by blotting. A stain shall be defined as a change in surface texture or a change in color. Specimens not staining at this point shall have a rating of 1-non-staining.



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2. Stains present after initial wash with water shall be washed with alcohol or naphtha using cheesecloth or soft bristle brush for 20 cycles using normal hand pressure. The specimens shall be washed with tap water and dried by blotting. Specimens not staining at this point shall have a rating of 2-removable by alcohol or naphtha.
3. Stains present after the aforementioned cleanings shall be scrubbed 20 scrub cycles with standard scouring powder and wet cheesecloth or soft bristle brush using normal hand pressure. The specimens shall be washed with tap water and dried by blotting. Reduction of gloss due to scrubbing with standard scouring power shall not constitute staining. Specimens whose stain is removed by the standard scouring powder shall have a rating of 3-removable by first application of standard scouring powder.
4. Stains present after the aforementioned cleanings shall be scrubbed 40 scrub cycles with standard scouring powder and wet cheesecloth or soft bristle brush using normal hand pressure. The specimens shall be washed with tap water and dried by blotting. Reduction of gloss due to scrubbing with standard scouring power shall not constitute staining. Specimens whose stain is removed by this additional shall have a rating of 4-removable by two standard scouring powder scrubblings.
5. Any specimen with stain remaining after the aforementioned cleanings shall have a rating of 5. Any specimen with stain remaining after the above cleanings shall be tested to determine the depth of staining. The affected area shall be cut and lightly sanded with 400 grit abrasive cloth until the stain is removed.



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3. Test Item: Cigarette Test

Sample Description: See photo

Test Method: Refer to CSA B45.5-17/IAPMO Z124-2017 Section 5.14

Test Condition:

Specimen: 100mm×100mm

Contact time: 120s

Test Result:

Brands of cigarettes	Qipilang	Yuxi	Taishan
Test result	No visible damage	No visible damage	No visible damage



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4. Test Item: Radioactivity

Sample Description: See photo

Test Method: GB 6566-2010

Test Condition:

Specimen: Powder, made from original sample

Test Result:

Test items	Requirement in GB 6566-2010 (Class A)	Test Results
Internal exposure index I_{Ra}	≤ 1.0	<0.1
External exposure index I_V	≤ 1.3	<0.1

Specific activity of the nuclides

Nuclides	Units	Specific activity
Ra-226	Bq/kg	9.2
Th-232		4.1
K-40		0.0

Note: The sample complies with requirements of GB 6566-2010 Class A decorative materials

Requirements of GB 6566-2010:

Main materials for building	Comply with $I_{Ra} \leq 1.0$, $I_V \leq 1.0$ In case of hole rate >25%, it shall comply with $I_{Ra} \leq 1.0$, $I_V \leq 1.3$
Decorative materials	Class A: Comply with $I_{Ra} \leq 1.0$, $I_V \leq 1.3$
	Class B: Comply with $I_{Ra} \leq 1.3$, $I_V \leq 1.9$, but not comply with the requirement of Class A
	Class C: Comply with $I_V \leq 2.8$, but not comply with the requirements of Class A & Class B



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5. Test Item: Mohs Scratch Hardness

Sample Description: See photo

Test Method: Refer to ASTM C1895-20

Test Condition:

Specimen: 100mm×100mm 3pcs

Testing surface: polished

Test Result:

Specimen No.	1	2	3
No scratch (highest numerical hardness point)	5	5	5
Scratch (lowest numerical hardness point)	6	6	6



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6. Test Item: Wet-Barefoot Inclining Platform Test

Sample Description: See photo

Test Method: Refer to AS 4586-2013 Amdt 1-2017 Appendix C

Test Condition:

Specimen: 500mm×500mm, 2pcs, see photo

Test solution: potable water with a uniform concentration of 1g/L sodium lauryl sulfate was used as a wetting agent.

Test surface: see photo

Test result:

Test item(s)	Test result(s)
Slip resistance (wet/barefoot ramp test)	Critical angle of inclination: 5.7°

Note: 1. There is no verification board (standard surface) used for test.

2. Test solution temperature: 20.0 °C.

3. Lab environmental temperature: 21.0 °C.

Classification of pedestrian surface materials according to the wet-barefoot inclining platform test:

Quality group	Angle(degrees)
No classification	$X < 12^\circ$
A	$12^\circ \leq X < 18^\circ$
B	$18^\circ \leq X < 24^\circ$
C	$X \geq 24^\circ$



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7. Test Item: Oil-Wet Inclining Platform Test

Sample Description: See photo

Test Method: AS 4586-2013 Amdt 1-2017 Appendix D

Test Condition:

Specimen: 500mm×500mm, 2pcs, see photo

Test surface: see photo

Test Result:

Test item(s)	Test result(s)	Classification
Slip resistance (oil-wet ramp test)	Critical angle of inclination: 4.1°	/

Classification of pedestrian surface materials according to the oil-wet inclining platform test:

Slip resistance assessment group	Angle(degrees)
No classification	$X < 6^\circ$
R9	$6^\circ \leq X < 10^\circ$
R10	$10^\circ \leq X < 19^\circ$
R11	$19^\circ \leq X < 27^\circ$
R12	$27^\circ \leq X < 35^\circ$
R13	$X \geq 35^\circ$



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8. Test Item: Wet Pendulum Test

Sample Description: See photo

Test Method: AS 4586-2013 Amdt 1-2017 Appendix A

Test Condition:

Specimen: 200mm×200mm, 6pcs, see photo

Type of slider: slider 96

Test surface: see photo

Test Result:

Specimen No.	1	2	3	4	5	6
Mean of British Pendulum Number (for each test surface)	10	10	10	10	10	10
Slip resistance value (SRV "wet")	10					
Class	P0					

Classification of pedestrian surface materials according to the wet pendulum test:

Class	Pendulum SRV (slider 55)	Pendulum SRV (slider 96)
P5	>44	>54
P4	40-44	45-54
P3	35-39	35-44
P2	20-34	25-34
P1	<20	12-24
P0	-	<12



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9. Test Item: Dry Floor Friction Test

Sample Description: See photo

Test Method: AS 4586-2013 Amdt 1-2017 Appendix B

Test Condition:

Specimen dimension: 300mm×300mm

Testing surface: see photo

Testing speed: 1.0m/min

Test result:

Test Item	X Direction	Y Direction	Result
Dynamic Coefficient of Friction	0.34	0.33	0.33
Classification	D0		

Classification of pedestrian surface materials according to the dry floor friction test:

Classification	Floor friction tester mean value
D1	≥0.40
D0	<0.40



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Xiamen Branch Testing Laboratory

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中国·福建·厦门·火炬(翔安)产业区翔虹路31号 邮编: 361101

t (86-592) 5765857 www.sgsgroup.com.cn
t (86-592) 5765857 sgs.china@sgs.com

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10. Test Item: Resistance to Salts Attack

Sample Description: See photo

Test Method: Refer to AS/NZS 4456.10:2003

Test Condition:

Specimen dimension: 50mm×50mm, 6pcs

Testing surface: see photo

Testing cycle: 15

Test result:

Mass loss: 0.00%

11. Test Item: Resistance to Dry Heat

Sample Description: See photo

Test Method: Refer to EN 13310:2015+A1:2018

Test Condition:

Specimen dimension: 200mm×200mm, 1pc

Testing surface: see photo

Test result:

No visible damage



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12. Test Item: Surface Burning Characteristics

Sample Description: See photo

Test Requested:

To determine the flame spread index (FSI) and smoke-developed index (SDI) of the sample's surface burning characteristics when it is subjected to the conditions of specified in ASTM E84-23c "Standard Test Method for Surface Burning Characteristics of Building Materials"

I. Conducted

This test was conducted in accordance with ASTM E84-23c Standard Test Method for Surface Burning Characteristics of Building Materials.

II. Introduction

The method, designated as ASTM E84-23c, "Standard Method of Test for Surface Burning Characteristics of Building Materials", is designed to determine the relative surface burning characteristics of materials under specific test conditions. Results are expressed in terms of flame spread index (FSI) and smoke developed index (SDI).

The purpose of this test method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke developed index are reported. However, there is not necessarily a relationship between these two measurements.

III. Test Procedure

The tunnel is preheated to 65.6°C (150°F), as measured by the floor-embedded thermocouple located 7.09m (23.25 ft) downstream of the burner ports, and allowed to cool to 40.6°C (105°F), as measured by the floor-embedded thermocouple located 3.96m (13 ft) from the burners. At this time the tunnel lid is raised and the test sample is placed along the ledges of the tunnel so as to form a continuous ceiling 7.32m (24 ft) long, 304.8mm (12 in) above the floor. The lid is then lowered into place.



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Xiamen Branch Testing Center Inspection Material Laboratory

No.31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China 361101
中国·福建·厦门·火炬(翔安)产业区翔虹路31号 邮编: 361101

t (86-592) 5765857 www.sgs.com.cn
t (86-592) 5765857 sgs.china@sgs.com

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Upon ignition of the gas burners, the flame spread distance is observed and recorded every 30 seconds. Flame spread distance versus time is plotted ignoring any flame front recessions. If the area under the curve (A) is less than or equal to 97.5 ft²min, FSI = 0.515·A; if greater, FSI = 4900/(195-A).

The test results for smoke shall be plotted and the area under the curve shall be divided by the area under the curve for heptane, multiplied by 100, and rounded to the nearest multiple of five to establish a numerical smoke-developed index (SDI).

IV. Conditioning

Prior to testing, the sample was conditioned to a constant weight at a temperature of (23±2.8)°C (73.4±5)°F and at a relative humidity of (50±5)%.

Sample Details

Sample size	508mmx508mm
Thickness	19mm

Exposed face: Smooth surface

Mounting methods:

The test specimen consisted of a total of 14 sections of material. The sections were butted together during testing to form the required specimen length. The specimen was self-supporting on the ledges of the test chamber.

Test results:

Flame Spread Index, FSI	Smoke-developed Index, SDI
5	35



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Rating:

The National Fire Protection Association Life Safety Code 101, Chapter 10, Section 10.2.3 “Interior Wall and Ceiling Finish Classification”, has a means of classifying materials with respect to Flame Spread and Smoke Developed when tested in accordance with ASTM E84, UL 723 “Method of Test of Surface Burning Characteristics of Building Materials”.

International Building Code, Chapter 8, Interior Finishes, Section 803 “Wall and Ceiling Finishes”, was classified in accordance with ASTM E84 or UL 723. Such interior finish materials shall be grouped in the following classes in accordance with their flame spread and smoke-developed indexes.

The classifications are as follows:

Classification	Flame Spread Index, FSI	Smoke-developed Index, SDI
Class A	0-25	0-450
Class B	26-75	0-450
Class C	76-200	0-450

Since the tested sample received a Flame Spread Index 5 and a Smoke-developed Index 35, it **would meet** the requirements of **Class A** interior Wall & Ceiling Finish Category.



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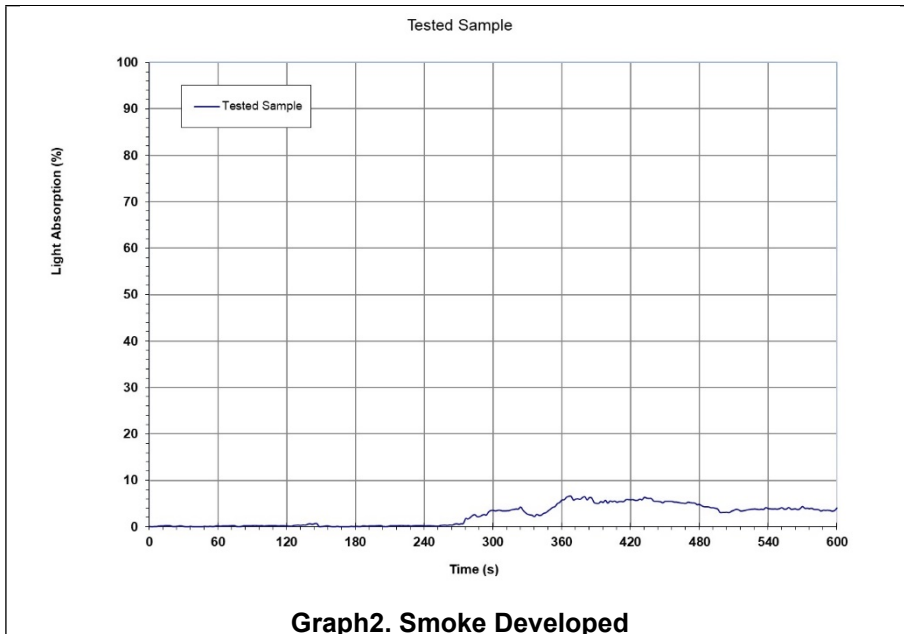
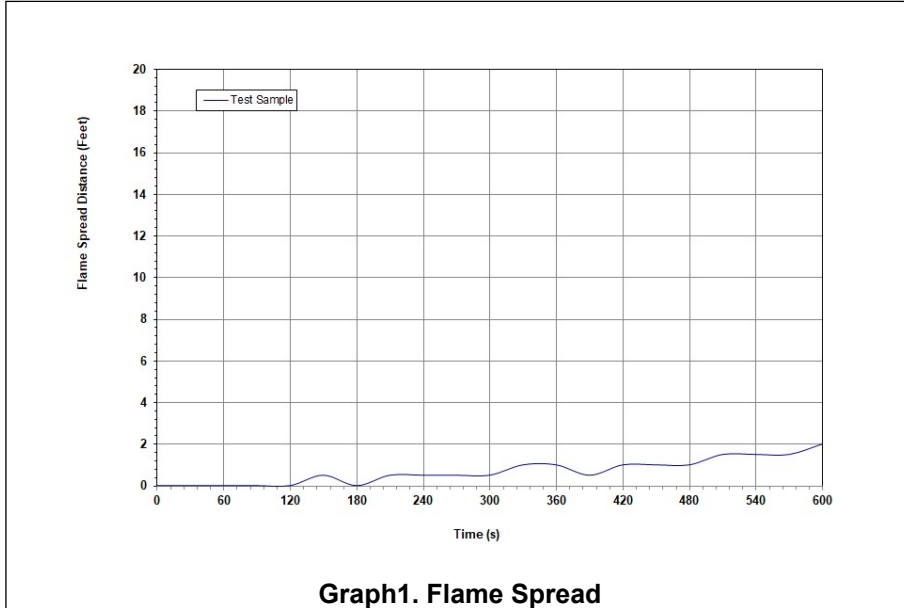
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Graphical Results:



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Observations

Time to ignition (sec)	286
Time to Max. FS (sec)	580
Maximum FS (feet)	2.0
Observations	None

Warning:

The use of supporting materials on the underside of the test specimen has the ability to lower the flame spread index from those which might be obtained if the specimen could be tested without such support. These test results do not necessarily relate to indices obtained by testing materials without such support.

Testing of materials that melt, drip, or delaminate to such a degree that the continuity of the flame front is destroyed, results in low flame spread indices that do not relate directly to indices obtained by testing materials that remain in place.

The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

Statement:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

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13. Test Item: Fire classification

Sample Description: See photo

Test Requested:

EN 13501-1:2018 Fire classification of construction products and building elements— Part 1:
Classification using data from reaction to fire tests.

I. Test conducted

This test is conducted as per EN 13501-1:2018 Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests. And the test methods as following:

1. EN 13823:2020+A1:2022 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.
2. EN ISO 11925-2:2020 Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test.

II. Details of classified product

Color	White
Thickness	19 mm
Area density	42.0kg/m ²

Mounting and fixing:

The horizontal joint of the test sample was set on the long wing of the sample, 500mm away from the bottom of the sample.

The back of the sample is supported by angle iron and fixed with screws. Specimen had a ventilated cavity of 0mm away from the backing board.



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III. Test results

Test methods	Parameter	Number of tests	Results
EN 13823	FIGRA _{0.2MJ} (W/s)	3	44.4
	FIGRA _{0.4MJ} (W/s)		44.4
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)		No
	THR _{600s} (MJ)		4.7
	SMOGRA (m ² /s ²)		2.9
	TSP _{600s} (m ²)		32.0
	Flaming particles or droplets (Yes/No)		No
EN ISO 11925-2 Exposure = 30 s	F _s ≤ 150mm within 60 s (Yes/No)	12	Yes
	Ignition of the filter paper (Yes/No)		No

Note:

FIGRA_{0.2MJ} - Fire growth rate index at THR threshold of 0,2 MJ [W/s]

FIGRA_{0.4MJ} - Fire growth rate index at THR threshold of 0,4 MJ [W/s]

THR_{600s} - Total heat release within 600 s [MJ]

SMOGRA - Smoke growth rate [m²/s²]

TSP_{600s} - Total smoke production within 600 s [m²]

IV. Classification and field of application

a) Reference of classification

This classification has been carried out in accordance with **EN 13501-1:2018**.

b) Classification

The product, SILICA-FREE SURFACE(UNDER 1% CRYSTALLINE SILICA) (as described by the sponsor), in relation to its reaction to fire behaviour is classified:



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Fire behaviour		Smoke production			Flaming droplets	
B	—	s	1	,	d	0

Reaction to fire classification: B—s1, d0

Remark: The classes with their corresponding fire performance are given in annex A.

c) Field of application

This classification is valid for the following product parameters:

--- Characteristics as described in section II of this test reports.

This classification is valid for the following end use applications:

--- Without any substrates

--- With mechanically fixing

--- With horizontal joints

Limitations

This classification document does not represent type approval or certification of the product.

Warning:

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

Statement:

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Annex A

Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

Class	Test method(s)	Classification criteria	Additional classification
A1	EN ISO 1182 ^a and	$\Delta T \leq 30^\circ\text{C}$, and $\Delta m \leq 50\%$, and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2.0\text{MJ/kg}$ ^a and $PCS \leq 2.0\text{MJ/kg}$ ^{b,c} and $PCS \leq 1.4\text{MJ/m}^2$ ^d and $PCS \leq 2.0\text{MJ/kg}$ ^e	-
A2	EN ISO 1182 ^a or	and $\Delta T \leq 50^\circ\text{C}$, and $\Delta m \leq 50\%$, and $t_f \leq 20\text{ s}$	-
	EN ISO 1716		-
	EN 13823	$FIGRA_{0.2\text{MJ}} \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
B	EN 13823 and	$FIGRA_{0.2\text{MJ}} \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s	$F_s \leq 150\text{mm}$ within 60s	
C	EN 13823 and	$FIGRA_{0.4\text{MJ}} \leq 250\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 15\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s	
D	EN 13823 and	$FIGRA_{0.4\text{MJ}} \leq 750\text{W/s}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s	
E	EN ISO 11925-2 ⁱ Exposure = 15s	$F_s \leq 150\text{mm}$ within 20 s	flaming droplets/particles ^h
F	EN ISO 11925-2 ⁱ Exposure = 15 s	$F_s > 150\text{mm}$ within 20 s	



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中国·福建·厦门·火炬(翔安)产业区翔虹路31号 邮编: 361101

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- ^a For homogeneous products and substantial components of non-homogeneous products.
- ^b For any external non-substantial component of non-homogeneous products.
- ^c Alternatively, any external non-substantial component having a $PCS \leq 2,0 \text{ MJ/m}^2$, provided that the product satisfies the following criteria of EN 13823: $FIGRA \leq 20 \text{ W/s}$, and $LFS < \text{edge of specimen}$, and $THR_{600s} \leq 4,0 \text{ MJ}$, and s1, and d0.
- ^d For any internal non-substantial component of non-homogeneous products.
- ^e For the product as a whole.
- ^f $s1 = SMOGRA \leq 30\text{m}^2/\text{s}^2$ and $TSP_{600s} \leq 50\text{m}^2$; $s2 = SMOGRA \leq 180\text{m}^2/\text{s}^2$ and $TSP_{600s} \leq 200\text{m}^2$; s3 = not s1 or s2
- ^g d0 = No flaming droplets/ particles in EN 13823 within 600 s;
d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;
d2 = not d0 or d1.
Ignition of the paper in EN ISO 11925-2 results in a d2 classification.
- ^h Pass = no ignition of the paper (no classification);
Fail = ignition of the paper (d2 classification).
- ⁱ Under conditions of surface flame attack and, if appropriate to the end–use application of the product, edge flame attack.

Photo Appendix:



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SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch Testing Laboratory

No.31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China 361101
中国·福建·厦门·火炬(翔安)产业区翔虹路31号 邮编:361101

t (86-592) 5765857 www.sgs.com.cn
t (86-592) 5765857 sgs.china@sgs.com

TEST REPORT

No. : XMIN2401000161CM01_EN

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14. Test Item: Asbestos

Sample Description: See photo

Asbestos

Test Method: With reference to AS 4964-2004, analysis was performed by PLM.

Test Item(s)	CAS No.	Unit(s)	MDL	001
Actinolite	77536-66-4	%(m/m)	0.1	Negative
Amosite	12172-73-5	%(m/m)	0.1	Negative
Anthophyllite	77536-67-5	%(m/m)	0.1	Negative
Chrysotile	12001-29-5 /132207-32-0	%(m/m)	0.1	Negative
Crocidolite	12001-28-4	%(m/m)	0.1	Negative
Tremolite	77536-68-6	%(m/m)	0.1	Negative

Notes:

(1) Negative = the absence of asbestos, Positive = the presence of asbestos.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

*****End of report*****



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No.31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China 361101
中国·福建·厦门·火炬(翔安)产业区翔虹路31号 邮编:361101

t (86-592) 5765857 www.sgsgroup.com.cn
t (86-592) 5765857 sgs.china@sgs.com