

## TEST REPORT

No. : TJIN2411000702CM01\_EN

Date : 2024-12-20

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CUSTOMER NAME: SHIJIAZHUANG SOBO COMMERCIAL CO.,LTD  
ADDRESS: 14-2-402 TIANRANCHENG,NO.122 QILIAN STREET,SHIJIAZHUANG  
CITY

Sample Name : Mineral wool pipe cover insulation

Product Specification : Tk25-200mm,Dn15-1050

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.

\*\*\*\*\*

Date of Receipt : 2024-11-19

Testing Period : 2024-11-19 ~ 2024-12-20

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 (Tianjin) Co., Ltd..

Duke Gai  
Authorized signatory



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### Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Density and Dimensions	ASTM C547-22a Section 11.1.1 & ASTM C302-13(2022) Procedure A	See Result	Pass
2	Linear Shrinkage	ASTM C547-22a Section 11.1.2 & ASTM C356-22	0.7 %	Pass
3	Water Vapor Sorption by Weight	ASTM C547-22a Section 11.1.4 & ASTM C1104/C1104M-19 Procedure A	0.1 %	Pass
4	Non-fibrous (Shot) Content	ASTM C547-22a Section 11.1.8 & ASTM C1335-23 Procedure B (Manual Operation)	17.5 %	Pass

Note: Pass : Meet the requirements;  
Fail : Does not meet the requirements;  
N/A : Not Apply to the judgment.



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### 1. Test Item: Density and Dimensions

Test Method: ASTM C547-22a Section 11.1.1 & ASTM C302-13(2022) Procedure A

Test Condition:

Specimen: 1000mm(length)×615mm(circumference)×51mm(wall thickness), 5pcs

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result	Requirement in ASTM C547-22a Section 8.1 & ASTM C585-22	Conclusion
Length (mm)	1000	1000 ± 3	Pass
Outside Diameter (mm)	196	194 ± 6.4	Pass

Original Date:

Test Item	Test Result					
	Individual Value					Average Value
Length (mm)	1000	999	1000	1000	1000	1000
Circumference (mm)	614	612	616	618	614	615
Outside Diameter (mm)	196	195	196	197	196	196
Thickness (mm)	51	50	51	52	51	51
Density (kg/m3)	116	115	116	114	116	115



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### 2. Test Item: Linear Shrinkage

Test Method: ASTM C547-22a Section 11.1.2 & ASTM C356-22

Test Condition:

Specimen: 152.4mm×63.5mm×38.1mm, 4pcs

Dry condition: 105°C

Heating temperature: 650°C

Heating time: 24h

Type: II (offered by client)

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result	Requirement in ASTM C547-22a Table 1 Type II	Conclusion
Linear Shrinkage (%)	0.7	≤ 2	Pass

Original Data:

Test Item	Test Result				
	Individual Value				Average Value
Linear Shrinkage (%)	0.9	0.7	0.7	0.5	0.7

Note: Test specimens were cut from original sample.

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### 3. Test Item: Water Vapor Sorption by Weight

Test Method: ASTM C547-22a Section 11.1.4 & ASTM C1104/C1104M-19 Procedure A

Test Condition:

Specimen: 150mm(length)×196mm(width)×51mm(wall thickness), 3pcs

Dry condition: 105℃

Treatment condition: 49℃, 95%RH, 96h

Type: II (offered by client)

Lab Environmental Condition: (23±2)℃, (50±5)%RH

Test Result:

Test Item	Test Result	Requirement in ASTM C547-22a Table 1 Type II	Conclusion
Water Vapor Sorption by Weight (%)	0.1	≤ 5	Pass

Original Data:

Test Item	Test Result			
	Individual Value			Average Value
Water Vapor Sorption by Weight (%)	0.1	0.1	0.1	0.1

Note: Test specimens were cut from original sample.



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### 4. Test Item: Non-fibrous (Shot) Content

Test Method: ASTM C547-22a Section 11.1.8 & ASTM C1335-23 Procedure B (Manual Operation)

Test Condition:

Specimen: 10g, 3pcs

Test condition: 593°C, 15min

Type: II (offered by client)

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result	Requirement in ASTM C547-22a Section 6.3.1	Conclusion
Non-fibrous (Shot) Content (%)	17.5	≤ 25	Pass

Original Data:

Test Item		Test Result			
		Individual Value			WC
Non-fibrous (Shot) Content (%)	No.20 Sieve	0.3	0.4	0.7	17.5
	No.50 Sieve	3.8	5.4	3.3	
	No.100 Sieve	13.3	11.7	13.7	

Note: Test specimens were cut from original sample.



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Original Sample Photo:



Test project was carried out by other laboratory in SGS group.

The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

Unless otherwise stated, this report provides a declaration of conformity according to whether the test results are within the specified limits or specifications without considering the measurement uncertainty.

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



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