



TEST REPORT

No.: SHIN2510009933PL04_EN

Issue Date: 2026-01-09

Page: 1 of 6

CUSTOMER NAME: BECINDUSTRIAL (SHANGHAI) CO.,LTD
ADDRESS: NO.2CHUANGYE ROAD,INDUSTRIALPARK,XINGDUO
TOWN,XINGHUA CITY,JIANGGSU PROVINCE

Sample Name : calcium silicate

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 : 2025-10-24

Testing Period : 2025-10-24 ~ 2026-01-09

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)

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Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jeff Zhang

Jeff Zhang

Authorized signatory



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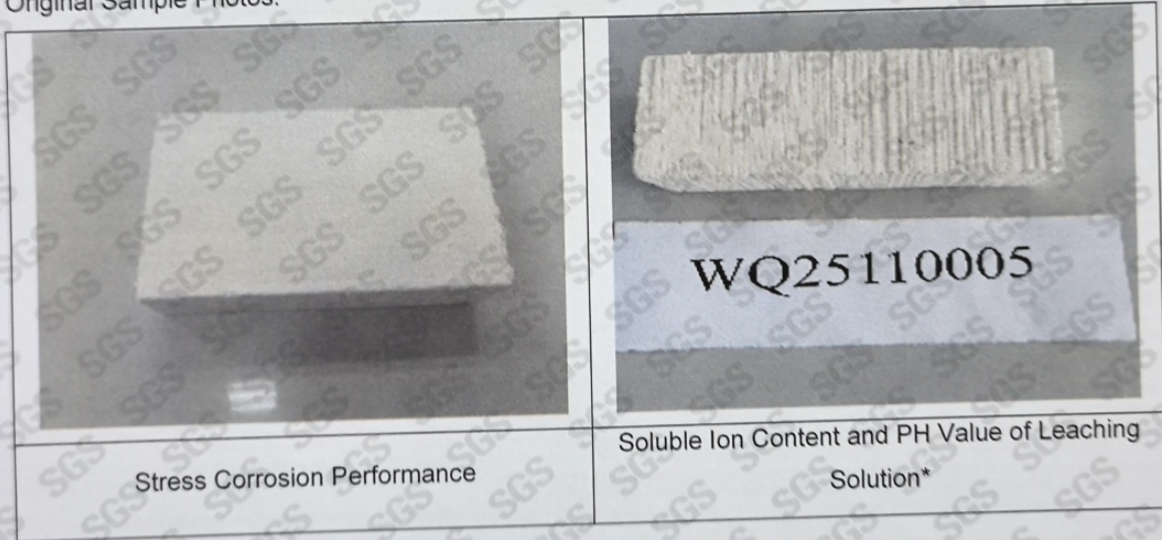
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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Stress Corrosion Performance	ASTM C533-17(2023) Section 12.1.9 & ASTM C795-08(2023) Section 12 & ASTM C692-13(2023) Procedure B Drip Test	See Result	Pass
2	Soluble Ion Content and PH Value of Leaching Solution	ASTM C533-17(2023) Section 12.1.9 & ASTM C795-08(2023) Section 13 & ASTM C871-18(2023)	See Result	Pass

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

Original Sample Photos:



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1. Test Item: Stress Corrosion Performance

Test Method: ASTM C533-17(2023) Section 12.1.9 & ASTM C795-08(2023) Section 12 & ASTM C692-13(2023) Procedure B Drip Test

Type: 1 Block (offered by client)

1) Information of Stainless Steel Coupons

Type	Dimensions	Heat Treatment
304	178mm×51mm×1.5mm	649°C, 3h, in air atmosphere

2) Information of Samples

Type	Sample Preparation
Block	102mm×89mm×38mm with arc groove, 4pcs

3) Test Condition

Test Procedure Used	Reagent	Drip Rate	Exposure Period
Drip test	Deionized Water	250 mL/d	28d (98°C)

4) Test Result of Reference Coupons

Reference Coupons	Reagent	Drip Rate	Exposure Period	Number of Coupons Tested	Number of Coupons with Cracks
Group 1	Deionized Water	250mL/d	28d	4	0
Group 2	Deionized Water (containing 1500 ppm chloride ions)	250mL/d	72h	4	4

5) Test Result of Test Coupons

Number of Tested Coupons	Number of Coupons with Cracks	Requirement in ASTM C533-17(2023) Section 12.1.9 & ASTM C795-08(2023) Section 12	Conclusion
4	0	No cracks	Pass

Note: Test specimens were cut from original sample.

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Test Photo:



After Test

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2. Test Item: Soluble Ion Content and PH Value of Leaching Solution

Sample Description: White hard block product

Test Method: ASTM C533-17(2023) Section 12.1.9 & ASTM C795-08(2023) Section 13 & ASTM C871-18(2023)

Specimen: 100mm×100mm×40mm, 6pcs

Test Result:

Test Item		Test Result		Requirement in ASTM C533-17(2023) Section 12.1.9 & ASTM C795-08(2023)	Conclusion
Soluble Ion Content (%)	ω(Cl ⁻)	%	0.042	ω(SiO ₃ ²⁻)+ω(Na ⁺)=1.7%, ω(Cl ⁻)+ω(F ⁻)<0.060%	Pass
		ppm	4.2×10 ²		
	ω(F ⁻)	%	0.0072		
		ppm	72		
	ω(SiO ₃ ²⁻)	%	1.28		
		ppm	1.28×10 ⁴		
ω(Na ⁺)	%	0.45			
	ppm	4.5×10 ³			
PH Value of Leaching Solution		10.3		≤12.5	Pass

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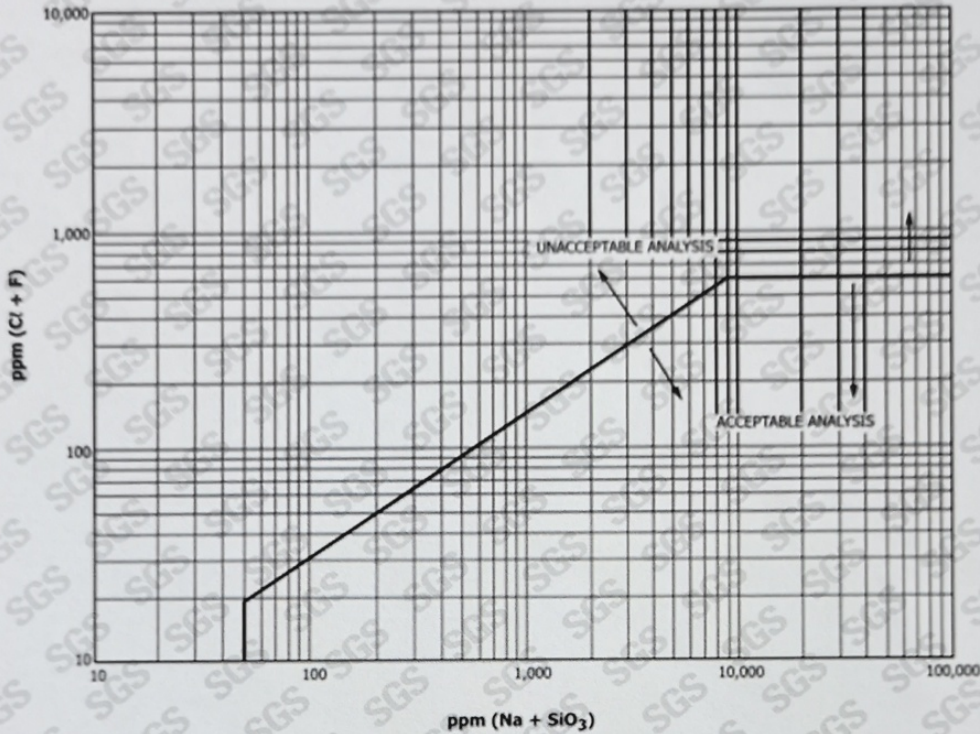


FIG. 1 Acceptability of Insulation Material on the Basis of the Plot Points of the (Cr + F) and the (Na + SiO₂) Analyses

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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