



TEST REPORT

No. : SHCCM141102233

Date : Nov. 19, 2014

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BEC INDUSTRIAL (SHANGHAI) CO., LTD.
NO.5050, LONGWU ROAD, MINHANG DISTRICT, SHANGHAI, CHINA 200241

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : ASBESTOS-FREE CALCIUM SILICATE
Sample Number : SHCCM141102233
Test Required : Please see the next page(s)
Test Standard : ASTM C795-08 (2013)
Manufacturer : BEC INDUSTRIAL (SHANGHAI) CO., LTD.
Date of Receipt : Nov. 10, 2014
Test Period : Nov. 10, 2014 to Nov. 19, 2014
Test result(s) : For further details, please refer to the following page(s)

***** To be continued*****

Signed for SGS-CSTC Standards
Technical Services (Shanghai) Co., Ltd.

Tiffany Liu
Authorized signatory



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Testing Center

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Test conducted:

ASTM C795-08(2013), Standard Specification for Thermal Insulation for use in Contact with Austenitic Stainless Steel

Test Method: ASTM C871-11^{E1} Standard Test Methods for Chemical Analysis of Thermal Insulation Materials for Leachable Chloride, Fluoride, Silicate, and Sodium Ions

Test item	Requirement	Test result	Conclusion
$\omega(\text{Cl}^-)$ %	When $\omega(\text{SiO}_3^{2-}) + \omega(\text{Na}^+) = 0.94\%$, $\omega(\text{Cl}^-) + \omega(\text{F}^-) < 0.060\%$	0.018	Pass
$\omega(\text{F}^-)$ %		0.0032	
$\omega(\text{SiO}_3^{2-})$ %		0.63	
$\omega(\text{Na}^+)$ %		0.31	
pH	≤ 12.5	10.35	Pass

Requirement in accordance with ASTM C795-08(2013) and ASTM C871-11^{E1}. An acceptable proportion of sodium plus silicate ions to the chloride plus fluoride ions as found by leaching from the insulation is shown in Fig.1. The pH of the leach water extracted in accordance with Test Method C871 shall have a pH no greater than 12.5 at 25°C.

***** To be continued*****



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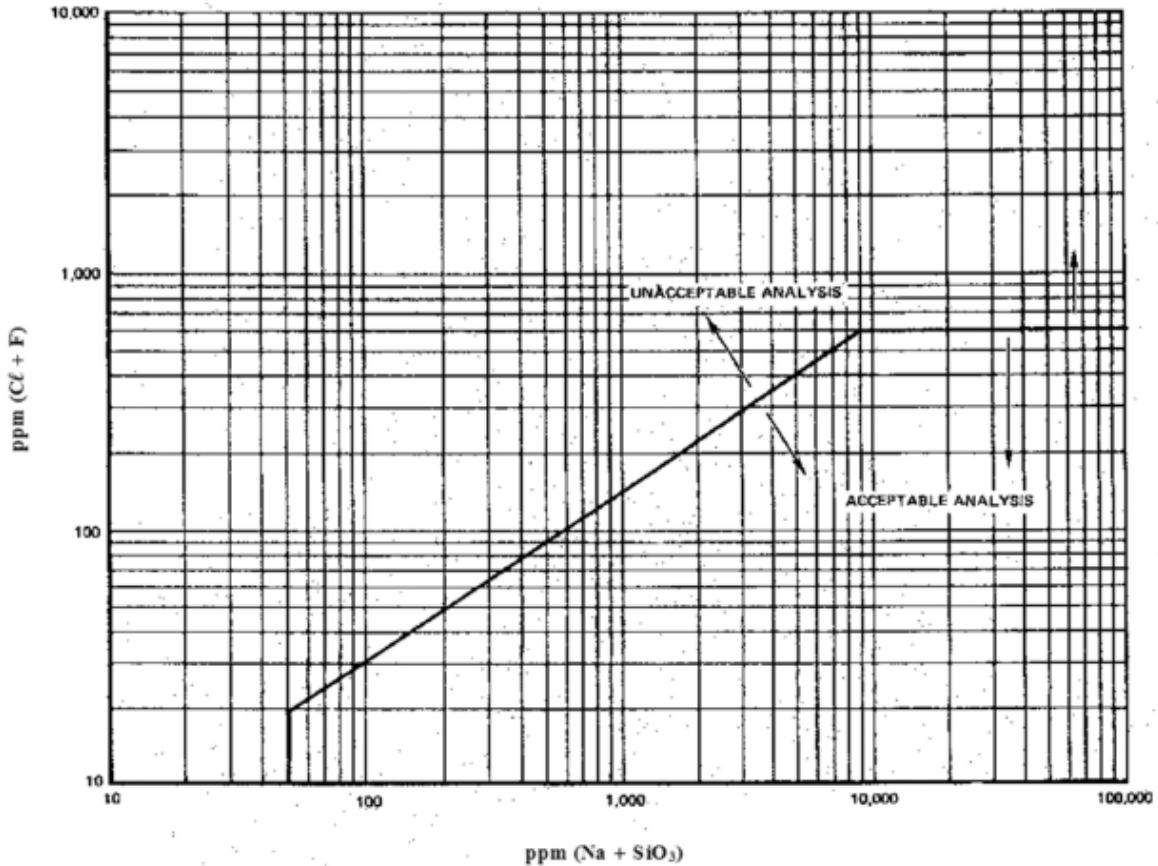


FIG. 1 Acceptability of Insulation Material on the Basis of the Plot Points of the (Cl + F) and the (Na + SiO₃) Analyses.

Note: The test was carried out by external laboratory assessed as competent.

Statement: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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



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Testing Center for General Laboratory

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