REPORT

Issued by an Accredited Testing Laboratory

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Date
2025-09-10

Reference
O100741-1324474-1rev1

Bridgehill AS
Elveveien 34
NO-3262 Larvik
Norway

Non-combustibility according to EN ISO 1182

(2 appendices)

Introduction

RISE has by request of Bridgehill AS performed a fire test according to EN ISO 1182. The purpose of the test is to form a basis for technical fire classification.

This report replaces RISE report O100741-1324474-1, dated August 20, 2025. This revision includes a correction of manufacturer address.

Product

According to the client:

Product called “BRIDGETECH™ Silicon Dioxide Fabric”, consisting of Silicon Dioxide Fabric. The product has a nominal area weight of 650 g/m^2 and a nominal thickness of 5 mm. The organic content is 0 %.

Manufacturer

Bridgehill AS, Larvik, Norway.

Sampling

The sample was delivered by the client. It is not known to RISE, Fire and Safety if the product received is representative of the mean production characteristics.

The sample was received June 18, 2025 at RISE, Fire and Safety.

Test results

The test results are given in appendix 1.

The test results relate only to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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Confidentiality level
C3 - Sensitive

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Accred. No. 1002
Testing
ISO/IEC 17025

Note

The accreditation referred to is valid for EN ISO 1182.

RISE Research Institutes of Sweden AB
Fire and safety - Fire dynamics

Performed by

Susanne Blomqvist

Examined by

Richard Johansson

Appendices

1. Test results – EN ISO 1182:2020
2. Calibration results according to EN ISO 1182:2020

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Appendix 1

Test results – EN ISO 1182:2020

Product

According to the client:

Product called “BRIDGETECH™ Silicon Dioxide Fabric”, consisting of Silicon Dioxide Fabric. The product has a nominal area weight of 650 g/m^2 and a nominal thickness of 5 mm. The organic content is 0 %.

Test results

The table below shows the maximum temperature rise relative to the final temperature recorded by the furnace thermocouples, duration of sustained flaming and mass loss.

Test specimen No.	Max. temperature rise Furnace (°C)			Duration of sustained flaming (s)	Mass loss (%)
	T_1	T_2	ΔT		
1	0.6	0.4	0.5	-	9.2
2	1.8	0.9	1.3	-	9.1
3	1.3	0.6	0.9	-	9.1
4	1.7	1.6	1.7	-	9.1
5	1.1	2.6	1.9	-	9.2
Average			**1**	**0**	**9**

Measured data

Thickness 5.6 mm approximately.

Area weight 700 kg/m^2 approximately.

Conditioning

Temperature (60 ± 5) °C.

Time (20 – 24) h.

Date of test

August 18, 2025.

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Appendix 2

Calibration results according to EN ISO 1182:2020

Calibration of furnace wall temperature according to EN ISO 1182:2020 part 7.3.1

The average deviation of the temperature on the three vertical axes from the average furnace wall temperature $T_{avg.dev.axis}$ shall be less than 0.5 %.

RISE, $T_{avg.dev.axis}$ = 0.2 %.

The average deviation of the temperature on the three levels from the average furnace wall temperature $T_{avg.dev.level}$ shall be less than 1.5 %.

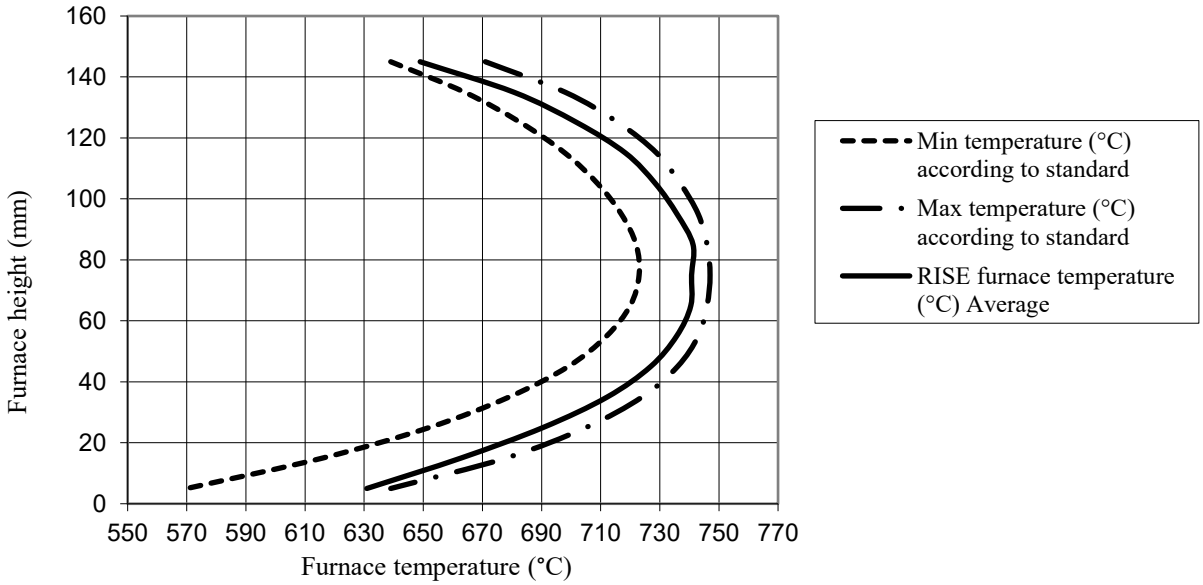
RISE, $T_{avg.dev.level}$ = 0.2 %.

The average wall temperature at level (+30 mm) $T_{avg.level\ a}$ is less than the average wall temperature at level
(-30 mm), $T_{avg.level\ c}$.

RISE, $T_{avg.level\ a}$ = 797 °C.

RISE, $T_{avg.level\ c}$ = 799 °C.

Calibration of furnace temperature according to EN ISO 1182:2020 part 7.3.2



Furnace temperature profile along its axis measured with Thermal sensor.

Verification

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Document

O100741-1324474-1rev1 EN ISO 1182 Bridgehill AS
Main document
4 pages
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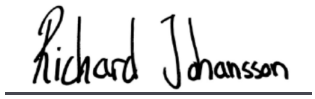
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