Test Report

Report No.

Date of Issue 01/21/2025

Applicant: TAIZHOU ZHONGSHENG GLASS FIBER PRODUCTS CO., LTD.

Applicant address: INDUSTRIAL CONCENTRATION ZONE OF DALUN TOWN, JIANGYAN DISTRICT, TAIZHOU CITY, JIANGSU PROVINCE, CHINA

Description of the test subject:

Sample	Description	Photo
001	Sample Name: Fire Blanket Style No.: TPS FB001	

Receipt Date of Sample: 12/16/2024

Date of Testing: From 12/16/2024 to 01/17/2025

Sample Submitted: The sample(s) was (were) submitted by applicant and identified.

Conclusion:

Test Items			Conclusion
No.	Items	Standard	
1	Cooking Fire Suppression Blankets	ASTM F1989-2005	Pass

Remark: Data of the report is quoted in TC.24.12.005625.

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Test Results

ASTM F1989-2005 Standard Specification for Cooking Fire Suppression Blankets

1. Electrical Resistance Test

Test Item	Test Results	Requirement	Conclusion
Electrical Resistance Test	>1 MΩ	not less than 1 MΩ	Pass

2. Cooking Oil Test Fires

Fuel	3L Edible cooking oil

Specimens No.	1	2	3
Ambient temperature (℃)	25	25	25
Heating time for auto ignition of the oil (min)	28	29	28
Whether have visible flames 17 min after ignition (Yes/No)	No	No	No
Whether the fire blanket remain whole and not ignite during the test (Yes/No)	Yes	Yes	Yes
Some oil shall remain in the tray at the end of the test (Yes/No)	Yes	Yes	Yes
Conclusion	Pass		

Requirement:
The fire is considered to be extinguished if there are no visible flames 17 min after ignition.
Some fuel shall remain at the end of the test, that is, the fire shall be extinguished and not merely starved of fuel.
All three tests shall be successful and the fire blanket shall remain whole and not ignite during the test.

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3. Size and Shape

Test Item	Test Results	Requirement	Conclusion
Size and Shape	1.006*1.024	with no edge less than 0.91 ± 0.05m	Pass

4. Mass

Test Item	Test Results	Requirement	Conclusion
Mass	584g	shall have a mass not exceeding 2 kg	Pass

5. Hand Holding Devices

Test Item	Test Results	Requirement	Conclusion
Hand Holding Devices	175mm	shall not be less than 100 mm	Pass

6. Appearance and Bi-Lateral Use

Test Item	Test Results	Requirement	Conclusion
Appearance and Bi-Lateral Use	The two sides of the fireproof blanket have the same appearance and color.	The two sides of a fire blanket shall be of identical appearance, finish or color.	Pass

7. Flexibility Test

Test Item	Test Results	Requirement	Conclusion
Flexibility Test	No permanent deformation occurred.	shall be capable of being rolled without permanent deformation along any axis completely around a 50mm diameter bar	Pass

8. Ease of Removal Test

Test Item	Test Results	Requirement	Conclusion
Ease of Removal Test	Cooking fire blankets can be removed and used within 4s. The force required to remove the fire blanket from the container is less than 30 N.	Cooking fire suppression blankets shall be designed and located in such a way that the user can remove, unfold, and make ready for use in not more than 4s. The force required to remove the fire blanket from its container shall not exceed 80 N.	Pass

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9. Shipping or Instruction Sheet

Test Item	Should indicate the content	Test Results	Conclusion
Shipping or Instruction Sheet	The words fire blanket on the front	Coincidence	Pass
	Instructions for use and mounting, preferably incorporating pictograms on the front	Coincidence	Pass
	Minimum time for removal from the fire of 20 min	Absent	Pass
	The manufacturer's or vendor's name and address	Absent	Pass
	The model or other identification of the fire blanket	Coincidence	Pass
	The size of the fire blanket, cooking fire suppression blankets shall be rectangular or square, with no edge less than 0.91±0.05m	Coincidence	Pass
	Indication that the fire blanket is not reusable and should be discarded after use	Absent	Pass
	Checking, maintenance and servicing Instructions, including when to discard if damaged or contaminated	Absent	Pass
	The designation and date of this ASTM specification	Absent	Pass

10. Fire Performance Tests

Test Item	Test Results	Requirement	Conclusion
Volatile Liquid Test Fires	Cooking fire blankets can extinguish volatile liquid fires and remain intact, without igniting during testing	Cooking fire suppression blankets shall be capable of extinguishing the volatile liquid fire. All three tests shall be successful and the cooking fire suppression blankets shall remain whole and not ignite during the test.	Pass
	Cooking fire blankets can extinguish volatile liquid fires and remain intact, without igniting during testing		Pass
	Cooking fire blankets can extinguish volatile liquid fires and remain intact, without igniting during testing		Pass
Home Cooking Fire	Cooking fire blankets can extinguish household cooking oil fires and remain intact, without igniting during testing	Cooking fire suppression blankets shall be capable of extinguishing the home cooking oil fire. All three tests shall be successful and the fire blanket shall remain whole and not ignite during the test.	Pass
	Cooking fire blankets can extinguish household cooking oil fires and remain intact, without igniting during testing		Pass
	Cooking fire blankets can extinguish household cooking oil fires and remain intact, without igniting during testing		Pass

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11. Resistance to Fraying or Tearing

Test Item	Test Results	Requirement	Conclusion
Resistance to Fraying or Tearing	During the fire test, there was no wear or tear on the edges of the cooking fire blanket	During the fire testing process, the edges of the cooking fire blanket must not be worn or torn	Pass

Statement：The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to the sole criterion for assessing the potential smoke and toxicity hazard of the product in use.

TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd.

Prepared by: Approved by:

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-End of Report-

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