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CNAS L6069



## Test Report

**Report No.** TC.22.03.001145

**Date of Issue** 03/30/2022

**Applicant:** YUYAO HEYUAN SEALING PRODUCTS FACTORY

**Applicant address:** ADD:1011 JINSHENG YUYUAN BUILDING YESHAN ROAD YUYAO CITY CHINA

**Description of the test subject:**

| Sample | Description                                                                                                                          | Photo |
|--------|--------------------------------------------------------------------------------------------------------------------------------------|-------|
| 001    | Sample Name: Fire Blanket<br>Style No.: FB-666<br>Manufacturer: YUYAO HEYUAN SEALING PRODUCTS FACTORY<br>End use: Fire extinguishing |       |

**Receipt Date of Sample:** 03/25/2022

**Date of Testing:** From 03/25/2022 to 03/27/2022

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

### Conclusion:

| Test Items |               |              | Conclusion |
|------------|---------------|--------------|------------|
| No.        | Items         | Standard     |            |
| 1          | Fire Blankets | EN 1869:2019 | Pass       |

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### Test Results

#### EN 1869:2019 Fire blankets

##### 1. Sample details:

|                    |              |                   |          |
|--------------------|--------------|-------------------|----------|
| Sample Description | Fire Blanket |                   |          |
| Precondition       | Temperature  | Relative humidity | Duration |
|                    | 20±10°C      | 60±10%R.H.        | 48h      |

##### 2. Test result:

###### 2.1 Construction

|                                                                                                                      |            |               |
|----------------------------------------------------------------------------------------------------------------------|------------|---------------|
| Whether there have seams in the fire blanket                                                                         | (Yes/No)   | No            |
| Whether the hand holding devices comprise loops                                                                      | (Yes/No)   | No            |
| Whether the hand holding devices are flammable                                                                       | (Yes/No)   | No            |
| Whether the hand holding devices were detach from the fire blanket during the testing                                | (Yes/No)   | No            |
| Size of fire blanket (length*width*Thickness)                                                                        | (mm*mm*mm) | 1000*1000*0.4 |
| Whether the fire blanket is suitable for smothering persons whose clothes are on fire.                               | (Yes/No)   | No            |
| Weight of specimen                                                                                                   | (kg)       | 0.478         |
| Whether the fire blanket is permanently deformed when rolling                                                        | (Yes/No)   | No            |
| Whether the edges of the fire blankets have fray or tear during tests                                                | (Yes/No)   | No            |
| Whether the fire blanket is packed in a protective container                                                         | (Yes/No)   | Yes           |
| The container shall be fitted with a visible means of indicating whether the blanket is inside.                      | (Yes/No)   | Yes           |
| Whether a fire blanket can be taken from the stowed position, unfolded, and held ready for use in not more than 4 s. | (Yes/No)   | Yes           |
| Whether the force to remove a fire blanket from the container exceed 80 N. (Yes/No)                                  |            | No            |

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### Requirement:

- 1) There shall be no seams in the fire blanket except as follows if required:
  - a) where the hand-holding devices are fixed; and
  - b) at any edge;
  - c) applying layers together.
- 2) Hand holding devices shall
  - a) not comprise loops;
  - b) be self-extinguishing after being subjected for 5s to a gas flame located below at 2cm from the material surface. The flame generated by a pocket lighter is suitable for the purpose;
  - c) not become detached from the fire blanket during any of the testing specified in this document.
- 3) Fire blankets shall be rectangular or square and no edge shall be less than 1,0 m and no more than 1,8 m. (Only fire blankets of minimum size 1,2m×1,8m are considered suitable for smothering persons whose clothes are on fire.)
- 4) The total mass of any fire blanket shall not exceed 4,5 kg.
- 5) A fire blanket shall be packed in a protective container.  
The container shall be designed, such that it does not damage the fire blanket at any time (during installation, inspection or use).
- 6) The container shall be fitted with a visible means of indicating whether the blanket is inside.
- 7) The edges of the fire blankets shall not fray or tear.
- 8) Protection against microorganism or insect should be taken into consideration, either through material treatment or via suitable container design.
- 9) Fire blankets shall be capable of being rolled completely around a (50 + 2) mm diameter bar, and along any axes parallel to adjacent sides, without permanent deformation.
- 10) When stowed or packed in accordance with the manufacturer's instructions, it shall be possible for a fire blanket to be taken from the stowed position, unfolded, and held ready for use in not more than 4 s. The force required to remove the fire blanket from the container fitted with its indicative device shall not exceed 80 N.

### 2.2 Electrical resistance

| Item                                 | Requirement                                                                                 | Test result | Conclusion |
|--------------------------------------|---------------------------------------------------------------------------------------------|-------------|------------|
| Electrical resistance of the blanket | The electrical resistance of the blanket material shall be not less than 1 MΩ at any point. | >1 MΩ       | Pass       |

### 2.3 Marking

|                                                                                                                                                                                         |          |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|
| Whether the container marked in white lettering on a red background.                                                                                                                    | (Yes/No) | Yes          |
| The height of the words FIRE BLANKET in letters                                                                                                                                         | (mm)     | 20           |
| The number EN 1869 and year of this standard and the model or type number.                                                                                                              |          | EN 1869:2019 |
| Whether there have instruction 'DISCARD AFTER USE'.                                                                                                                                     | (Yes/No) | Yes          |
| Whether there have instructions for use incorporating pictograms and including an instruction to 'cover burning material completely', 'switch off heat' and 'leave covered until cool'. | (Yes/No) | Yes          |

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|                                                                                                                                        |     |
|----------------------------------------------------------------------------------------------------------------------------------------|-----|
| Whether there have the number of this European Standard in the reverse of the container or a leaflet                                   | Yes |
| Whether there have instructions prescribing an annual service in the reverse of the container or a leaflet. (Yes/No)                   | Yes |
| Whether there have blanket size in metres by metres in the reverse of the container or a leaflet. (Yes/No)                             | Yes |
| Whether there have folding instructions in the reverse of the container or a leaflet. (Yes/No)                                         | Yes |
| Whether the marking which indicates that the fire blanket is not suitable for smothering persons whose clothes are on fire is visible. | Yes |

### Requirement:

- 1) The container shall be marked with the following in white lettering on a red background.  
The location and layout of the markings and their front style and contrast should be such that they are legible and understood by users when the container is fixed in position.  
Text shall be in at least one of the national languages of the country where the blanket is intended to be used.
- 2) These markings shall be visible when the container is fixed in position
  - a) The words FIRE BLANKET in upper case letters not less than 20 mm high.
  - b) the number and year of the CEN edition of this document;
  - c) Model or type number;
  - d) blanket size in metres by metres;
  - e) incorporate pictograms and instructions for:
    - 1) removal of fire blanket from container
    - 2) application of fires of flammable material
      - “switch off heat”
      - “cover burning material completely”
      - “leave covered until cool”
    - 3) application of fire blankets suitable for smothering persons whose clothes are on fire
      - Cover the victim with the blanket and smother the fire
    - f) the instruction DISCARD AFTER USE, in upper case letters.
- 3) Either the reverse of the container or a leaflet shall be marked with the following.
  - a) Instructions prescribing periodical inspection in accordance with the manufacturer recommendations; an annual inspection is recommended;
  - b) Folding instructions.
- 4) For its traceability, each fire blanket or container shall bear a batch number indication.

**Conclusion:** Pass

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### 2.4 Fire performance test

|      |                       |
|------|-----------------------|
| Fuel | 3L Edible cooking oil |
|------|-----------------------|

|                                                                               |       |       |       |
|-------------------------------------------------------------------------------|-------|-------|-------|
| Specimens No.                                                                 | 1     | 2     | 3     |
| Ambient temperature (°C)                                                      | 25    | 25    | 25    |
| Auto ignition temperature of the oil (°C)                                     | 372   | 369   | 362   |
| Heating time for auto ignition of the oil                                     | 20min | 24min | 25min |
| Whether have visible flames after removal of the blanket (Yes/No)             | No    | No    | No    |
| Whether re-ignition within 3 min of removal of the blanket (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   |

#### Requirement:

- 1) Remove the blanket 17min after ignition and observe whether the fire is extinguished.
  - 2) The fire is considered to be extinguished if there are:
    - no visible flames after removal of the blanket; and
    - no re-ignition within 3 min of removal of the blanket
- Some oil shall remain in the tray at the end of the test.

**Conclusion:** Pass

### 2.5 Heptane fire performance test

|      |                         |
|------|-------------------------|
| Fuel | 3L Heptane and 1L water |
|------|-------------------------|

|                                                                               |     |     |     |
|-------------------------------------------------------------------------------|-----|-----|-----|
| Specimens No.                                                                 | 1   | 2   | 3   |
| Ambient temperature (°C)                                                      | 25  | 25  | 25  |
| Whether have visible flames after removal of the blanket (Yes/No)             | No  | No  | No  |
| Whether re-ignition within 10s of removal of the blanket (Yes/No)             | No  | No  | No  |
| Whether the fire blanket remain whole and not ignite during the test (Yes/No) | Yes | Yes | Yes |
| After each test, a minimum of 5mm of fuel shall remain (Yes/No)               | Yes | Yes | Yes |

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### Requirement:

- 1) Remove the blanket 4min after ignition and observe whether the fire is extinguished.
- 2) The fire is considered to be extinguished if there are:
  - no visible flames after removal of the blanket; and
  - no re-ignition within 10s of removal of the blanket

After each test, a minimum of 5mm of fuel shall remain.

**Conclusion:** 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 be the sole criterion for assessing the potential smoke and toxicity hazard of the product in use. Test results are just for internal reference.

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

Drafted by:

Wayne Wang

Approved by:

Yanan Liu

-End of Report-

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