



中国认可
国际互认
检测
TESTING
CNAS L3428

Test Report

Date :2023-03-23

Page 1 of 9

No. : DT23010026

Applicant (08316064) : PT.SKT INDO FURNITURE INDUSTRIAL
KOMPLEK UNION INDUSTRIAL PARK BLOK G.NO.3
BATU AMPAR-BATAM, INDONESIA

Manufacturer : PT.SKT INDO FURNITURE INDUSTRIAL
KOMPLEK UNION INDUSTRIAL PARK BLOK G.NO.3
BATU AMPAR-BATAM, INDONESIA

Description of Sample(s) : Three (3) pieces of submitted sample(s) said to be:
Spring Mattress
(See the attached photo)
Style/Item No.:SL-MT2、SL-MT3
End Use: household
Country of Origin: Indonesia
Country of Destination: USA

Date sample(s) Received : 2023-01-03

Date Tested : 2023-01-03 to 2023-03-23

Investigation(s) Requested : Selected test(s) as detailed herein.

Conclusion(s) : The submitted sample(s) **complied** with the requirements of 16 CFR 1633.

Zhang Ke Yuan, Kent
Authorized Signatory

STC (Dongguan) Company Limited

68 Fumin Nan Road, Dalang, Dongguan, Guangdong, China. Zip Code: 523770

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Date :2023-03-23

Page 2 of 9

No. : DT23010026

TEST RESULT(S):**16 CFR 1633 – Standard for the Flammability (Open Flame) of Mattress Sets**

Test Category Requested: Qualified Prototype (3 mattress sets)

Note: As defined by CFR Title 16 Part 1633, a “mattress set” can either be a mattress without a foundation or a mattress with a foundation. The sale of mattresses tested without foundations might be limited to that configuration.

Qualified Prototype: Three mattress sets must demonstrate compliance with the Acceptance Criteria.

1.Sample Information

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

Model Name :	Spring Mattress
Prototype Identification:	SL-MT2、SL-MT3
Method of Assembly:	Tuft
Specimen Composite:	/
Covering Material(Ticking):	/
Foam Padding :	/
Barrier/ Interliner:	/
Overall Size:	/
Foundation:	Without Foundation

2.Conditions:

	<u>Requirement</u>	<u>Actual</u>
Temperature:	Greater than 59°F Less than 80.6 °F	72.6°F
Relative Humidity:	Less than 75%	55%
Time lag between conditioning room & test start:	Within 20 minutes	10 minutes

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Date :2023-03-23

Page 3 of 9

No. : DT23010026

TEST RESULT(S):**3.Procedure:**

The sample was conditioned before testing for at least 48 hours at greater than 65°F and less than 77 °F and a relative humidity less than 55%.

The mattress was placed on a metal test frame and catch surface under the center of an open hood. The open hood and open calorimeter test room were configured in accordance with open calorimeter Layout Option A as specified in 16 CFR 1633.

The ignition source was the NIST Dual Burner System constructed of stainless steel tubing in accordance with the Section 6 Ignition Source and Figure 7. The fuel used was commercial propane delivered at a rate of 12.9 l/min to the top burner for a total time of 70 seconds and a rate of 6.6 l/min to the side burner for a total time of 50 seconds.

After ignition of the burner, we monitored recorded certain properties of the test procedure. These properties are Heat Release Rate, Total Heat.

4. Test Results:

Sample Set #1:

Measurement Type	Initial Value	Maximum Value	Time Occurred (min: sec)	Allowed Value	Comments
Heat Release Rate (kW)	0	40.0	01:23	200	Pass
Total Heat Release – First 10 Min (MJ)	6.1			15	Pass

Total Test Time, (min:sec):	30:00
Total Heat Release (Entire Test, MJ)	18.2
Please reference Figure 1and 2 for graphical representation of the Heat Release Rate and Total Heat Release.	

OBSERVATIONS:

- 10:15 – Sample was removed from conditioning room.
- 10:25 – Test was started.
- 10:38 – Some flame kept burning on the mattress.
- 10:55 – Test was stopped.

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Test Report

Date :2023-03-23

Page 4 of 9

No. : DT23010026

TEST RESULT(S):

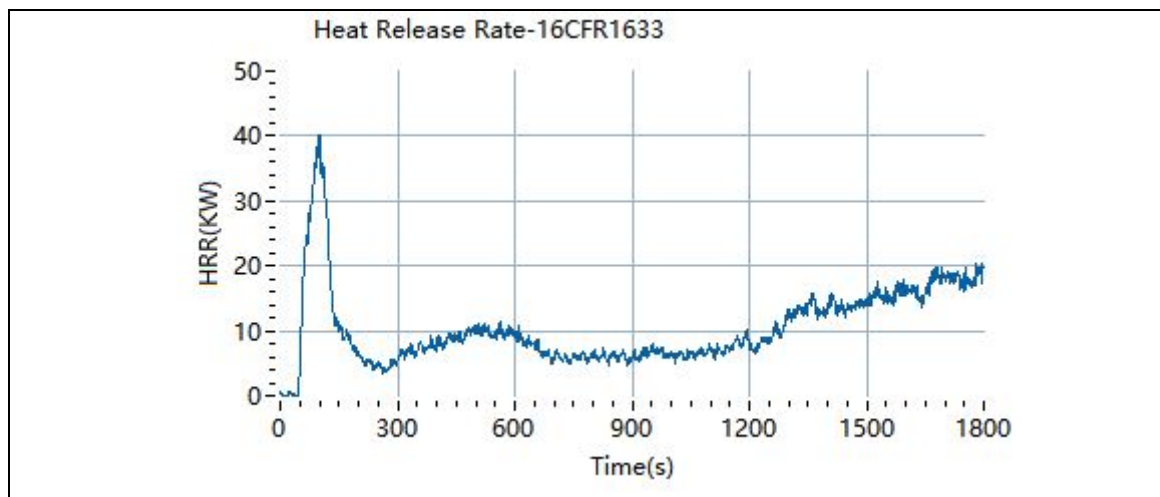


Figure 1

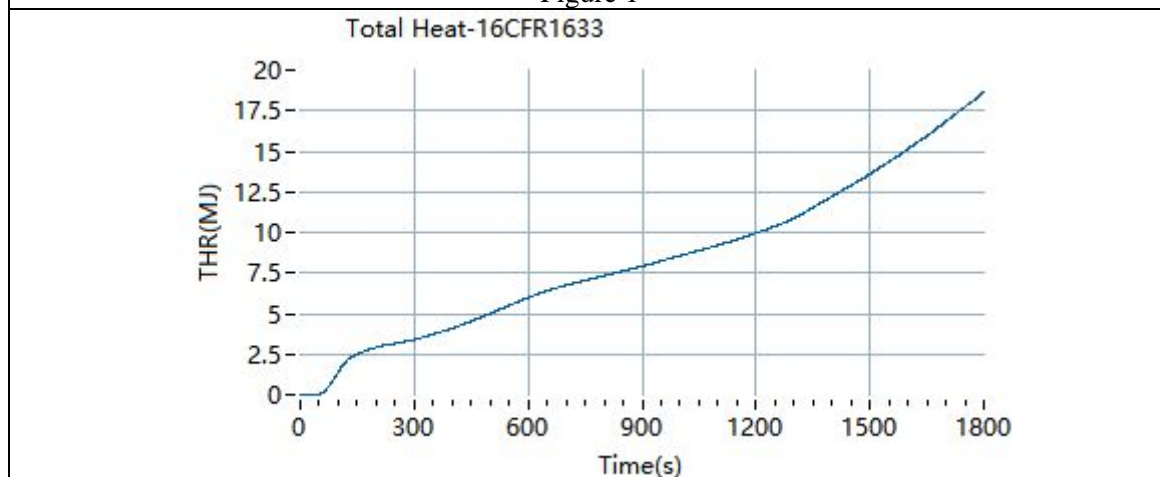


Figure 2

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Date :2023-03-23

Page 5 of 9

No. : DT23010026

TEST RESULT(S):

Sample Set #2:

Measurement Type	Initial Value	Maximum Value	Time Occurred (min: sec)	Allowed Value	Comments
Heat Release Rate (kW)	0	109.5	29:20	200	Pass
Total Heat Release – First 10 Min (MJ)	8.8			15	Pass

Total Test Time, (min:sec):	30:00
Total Heat Release (Entire Test, MJ)	62.5
Please reference Figure 3 and 4 for graphical representation of the Heat Release Rate and Total Heat Release.	

OBSERVATIONS:

- 13:45 – Sample was removed from conditioning room.
- 13:55 – Test was started.
- 13:58 – Some flame kept burning on the mattress.
- 14:20 – The flame is escalating combustion.
- 14:25 – Test was stopped.

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Test Report

Date :2023-03-23

Page 6 of 9

No. : DT23010026

TEST RESULT(S):

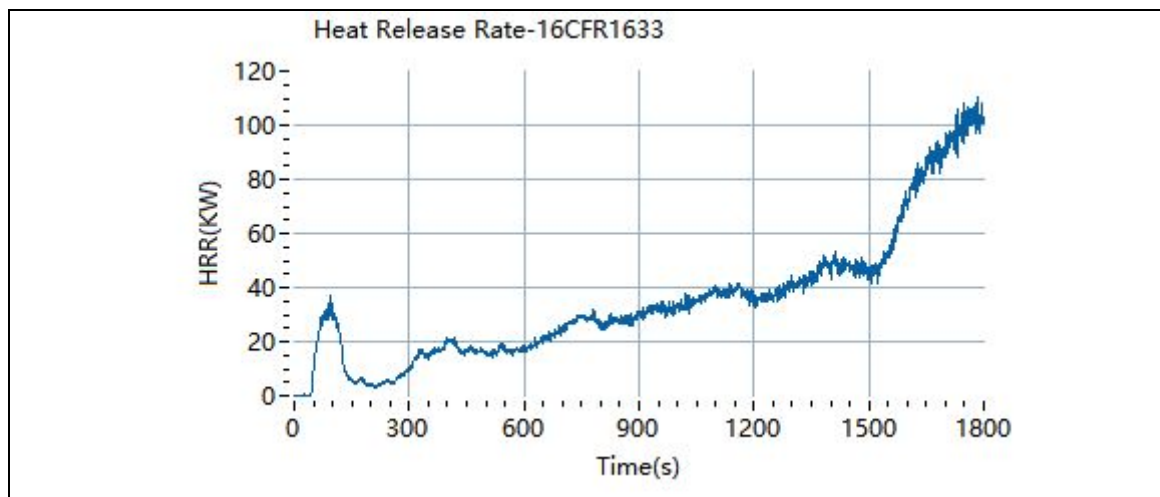


Figure 3

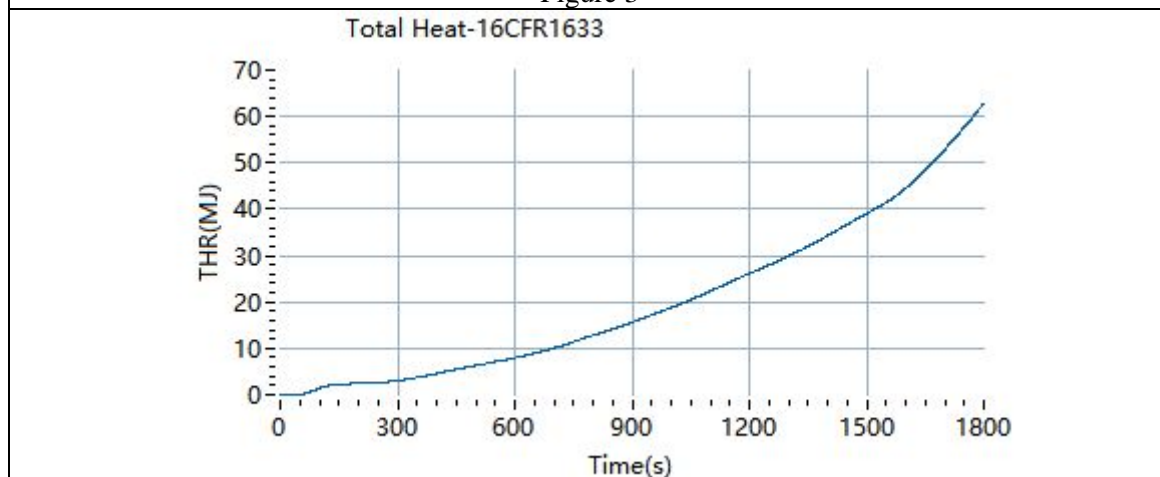


Figure 4

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Date :2023-03-23

Page 7 of 9

No. : DT23010026

TEST RESULT(S):

Sample Set #3:

Measurement Type	Initial Value	Maximum Value	Time Occurred (min: sec)	Allowed Value	Comments
Heat Release Rate (kW)	0	34.6	01:15	200	Pass
Total Heat Release – First 10 Min (MJ)	5.1			15	Pass

Total Test Time, (min:sec):	30:00
Total Heat Release (Entire Test, MJ)	15.8
Please reference Figure 5 and 6 for graphical representation of the Heat Release Rate and Total Heat Release.	

OBSERVATIONS:

- 16:20 – Sample was removed from conditioning room.
- 16:30 – Test was started.
- 16:33 – Some flame kept burning on the mattress.
- 17:00 – Test was stopped.

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Test Report

Date :2023-03-23

Page 8 of 9

No. : DT23010026

TEST RESULT(S):

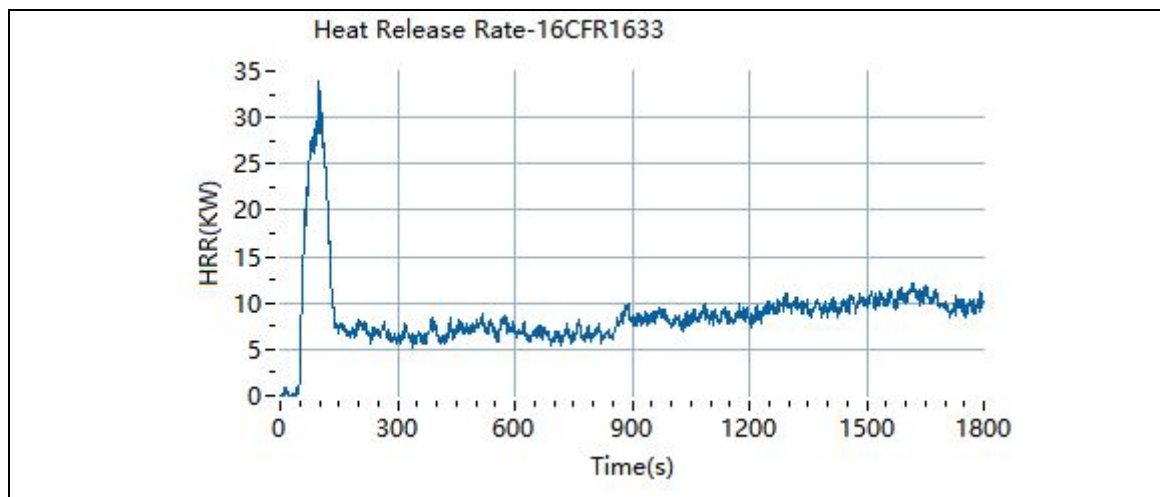


Figure 5

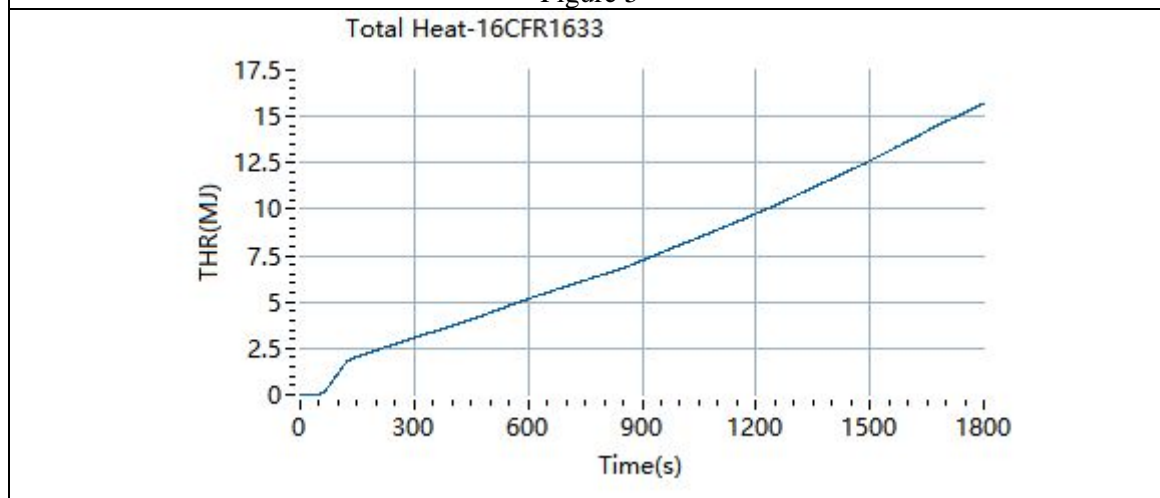


Figure 6

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Date :2023-03-23

Page 9 of 9

No. : DT23010026

Appendix for Photos of the Submitted Sample(s)

<p style="text-align: center;">DT23010026</p> 	
Sample 1	Test 1
	
Sample 2	Test 2
	
Sample 3	Test 3

******* End of Test Report *******

签发测试报告的条款

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