



Test Report

No.: SHHL250200576901CW

Date: MAR. 04, 2025

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SHANGHAI HUIZHOU INDUSTRY CO.,LTD

207-208 , BUILDING 2,NO.7030 YINGGANG EAST ROAD, QINGPU DISTRICT, SHANGHAI

Sample Description : Large capacity thermos flask+ICE BOX
SGS Ref No. : SHP25-003012 EC

Source of Sample : SENT BY CLIENT.
Sample Receiving Date : FEB. 11, 2025
Testing Period : FEB. 11, 2025 TO MAR. 04, 2025

| Test Requested | Result |
|---|------------|
| Cold Retention Test (As per Client's Requirement) | See result |

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Sky Zhang
Authorized Signatory

Scan to see the report



4A5D36A4



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

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Test Conducted:

| Test Item | Test Requirements and Methods | Result |
|--------------------------------|--|-------------|
| Large Thermos Cup + Ice Strips | Place 10 ice strips in a -15°C (±1°C) environment for 3 hours, then store the thermos cup in a 25°C (±1°C) environment. Set up a thermometer to record data every 1 minute. Place the frozen ice strips and thermometer into the thermos cup, divided into five groups: thermos cup + 2 ice strips, thermos cup + 4 ice strips, thermos cup + 6 ice strips, thermos cup + 8 ice strips, thermos cup + 10 ice strips. Start the test, and test each of the five groups at three ambient temperatures (30°C, 35°C, 40°C) for 24 hours each. Provide complete test data and curves. | See Table 1 |

Table 1

Ambient temperature: 30°C

Test sample: Thermos cup + 2 ice strips

| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
|------------------|------|------|------|------|------|------|
| Temperature (°C) | 14.9 | 17.6 | 18.4 | 18.8 | 19.3 | 20.2 |
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 21 | 21.7 | 25.7 | 27.5 | 28.5 | 29 |
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 29.2 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 |
| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
| Temperature (°C) | 29.3 | 29.5 | 29.5 | 29.4 | 29.5 | 29.6 |

Ambient temperature: 30°C

Test sample: Thermos cup + 4 ice strips

| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
|------------------|------|------|------|------|------|------|
| Temperature (°C) | 12.6 | 16.4 | 18 | 18.7 | 19.2 | 19.4 |
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 19.5 | 19.6 | 19.8 | 20.1 | 20.5 | 20.7 |
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 21.2 | 21.7 | 22.7 | 24.9 | 26.7 | 27.7 |



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| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
|------------------|------|------|------|------|------|------|
| Temperature (°C) | 28.3 | 28.8 | 29.1 | 29.4 | 29.5 | 29.6 |

Ambient temperature: 30°C

Test sample: Thermos cup + 6 ice strips

| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
|------------------|------|------|------|------|------|------|
| Temperature (°C) | 7.2 | 12 | 14.6 | 16.2 | 17.3 | 17.7 |
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 18.1 | 18.3 | 18.5 | 18.6 | 18.7 | 18.9 |
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 19 | 19.1 | 19.2 | 19.4 | 19.6 | 19.7 |
| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
| Temperature (°C) | 19.7 | 19.9 | 20.3 | 22.8 | 24.9 | 26.2 |

Ambient temperature: 30°C

Test sample: Thermos cup + 8 ice strips

| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
|------------------|------|------|------|------|------|------|
| Temperature (°C) | 4.9 | 9.6 | 12.3 | 14 | 15.2 | 16 |
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 16.4 | 16.7 | 17.1 | 17.2 | 17.3 | 17.5 |
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 17.6 | 17.6 | 17.7 | 17.8 | 17.9 | 17.9 |
| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
| Temperature (°C) | 18.1 | 18.5 | 19.3 | 19.9 | 20.5 | 21.2 |

Ambient temperature: 30°C

Test sample: Thermos cup + 10 ice strips

| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
|------------------|------|------|------|------|------|------|
| Temperature (°C) | 2.5 | 6.7 | 9.9 | 11.8 | 13.3 | 14.5 |
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 15.4 | 15.8 | 16.2 | 16.4 | 16.7 | 16.9 |



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|------------------|------|------|------|------|------|------|
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 16.9 | 17.2 | 17.2 | 17.2 | 17.4 | 17.2 |
| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
| Temperature (°C) | 17.2 | 17.4 | 17.4 | 17.6 | 17.6 | 17.7 |

Ambient temperature: 35°C

Test sample: Thermos cup + 2 ice strips

| | | | | | | |
|------------------|------|------|------|------|------|------|
| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
| Temperature (°C) | 14.5 | 18.1 | 19.0 | 19.6 | 20.6 | 22.5 |
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 26.5 | 29.9 | 32.0 | 33.3 | 34.1 | 34.6 |
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 34.9 | 35.1 | 35.2 | 35.3 | 35.3 | 35.4 |
| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
| Temperature (°C) | 35.4 | 35.4 | 35.4 | 35.4 | 35.4 | 35.4 |

Ambient temperature: 35°C

Test sample: Thermos cup + 4 ice strips

| | | | | | | |
|------------------|------|------|------|------|------|------|
| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
| Temperature (°C) | 8.2 | 13.3 | 16.0 | 17.4 | 18.1 | 18.5 |
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 18.9 | 19.4 | 20.3 | 21.7 | 23.8 | 26.6 |
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 29.1 | 31.0 | 32.3 | 33.2 | 33.8 | 34.3 |
| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
| Temperature (°C) | 34.6 | 34.8 | 35.0 | 35.1 | 35.2 | 35.2 |

Ambient temperature: 35°C

Test sample: Thermos cup + 6 ice strips

| | | | | | | |
|------------------|-----|------|------|------|------|------|
| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
| Temperature (°C) | 5.0 | 10.6 | 14.4 | 16.4 | 17.5 | 17.9 |



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|------------------|------|------|------|------|------|------|
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 18.2 | 18.4 | 18.6 | 18.8 | 19.1 | 19.5 |
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 19.9 | 20.5 | 21.4 | 22.5 | 24.1 | 26.5 |
| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
| Temperature (°C) | 28.6 | 30.1 | 31.4 | 32.3 | 33.0 | 33.5 |

Ambient temperature: 35°C

Test sample: Thermos cup + 8 ice strips

| | | | | | | |
|------------------|------|------|------|------|------|------|
| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
| Temperature (°C) | 3.5 | 8.6 | 12.4 | 14.8 | 16.4 | 17.2 |
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 17.5 | 17.7 | 17.8 | 18.0 | 18.1 | 18.3 |
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 18.4 | 18.6 | 18.9 | 19.1 | 19.4 | 19.8 |
| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
| Temperature (°C) | 20.3 | 21.0 | 21.8 | 23.2 | 25.4 | 27.3 |

Ambient temperature: 35°C

Test sample: Thermos cup + 10 ice strips

| | | | | | | |
|------------------|------|------|------|------|------|------|
| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
| Temperature (°C) | 2.0 | 6.8 | 10.4 | 12.8 | 14.3 | 15.4 |
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 16.1 | 16.5 | 16.7 | 16.9 | 17.1 | 17.2 |
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 17.3 | 17.5 | 17.6 | 17.7 | 17.9 | 18.2 |
| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
| Temperature (°C) | 18.5 | 18.8 | 19.4 | 20.0 | 20.8 | 22.1 |

Ambient temperature: 40°C

Test sample: Thermos cup + 2 ice strips



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|------------------|------|------|------|------|------|------|
| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
| Temperature (°C) | 16.1 | 19.5 | 20.3 | 21.6 | 22.8 | 33.4 |
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 36.7 | 38.3 | 38.8 | 39.1 | 39.3 | 39.3 |
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 39.4 | 39.3 | 39.4 | 39.4 | 39.4 | 39.3 |
| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
| Temperature (°C) | 39.4 | 39.5 | 39.7 | 39.6 | 39.6 | 39.6 |

Ambient temperature: 40°C

Test sample: Thermos cup + 4 ice strips

| | | | | | | |
|------------------|------|------|------|------|------|------|
| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
| Temperature (°C) | 11.8 | 17.7 | 19.8 | 20.6 | 21.3 | 22.4 |
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 23.8 | 25.2 | 27.5 | 31.6 | 34.5 | 36.4 |
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 37.7 | 38.3 | 39 | 39.3 | 39.4 | 39.4 |
| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
| Temperature (°C) | 39.8 | 39.8 | 40.1 | 39.9 | 39.9 | 40 |

Ambient temperature: 40°C

Test sample: Thermos cup + 6 ice strips

| | | | | | | |
|------------------|------|------|------|------|------|------|
| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
| Temperature (°C) | 5.4 | 12.8 | 16.3 | 17.8 | 18.2 | 18.5 |
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 18.8 | 19.1 | 19.4 | 20 | 20.8 | 21.5 |
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 23.3 | 26.1 | 30.3 | 32.8 | 34.6 | 36.1 |
| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
| Temperature (°C) | 37 | 37.7 | 38.4 | 38.8 | 39 | 39.3 |



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Ambient temperature: 40°C

Test sample: Thermos cup + 8 ice strips

| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
|------------------|------|------|------|------|------|------|
| Temperature (°C) | 3.5 | 10.4 | 14.3 | 16.5 | 17.5 | 18.1 |
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 18.4 | 18.6 | 18.7 | 18.9 | 19 | 19.2 |
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 19.5 | 19.8 | 20.5 | 22 | 24.9 | 28.1 |
| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
| Temperature (°C) | 30.9 | 32.9 | 34.6 | 35.7 | 36.7 | 37.5 |

Ambient temperature: 40°C

Test sample: Thermos cup + 10 ice strips

| Time (hour) | 1 | 2 | 3 | 4 | 5 | 6 |
|------------------|------|------|------|------|------|------|
| Temperature (°C) | 2 | 8.5 | 12.5 | 14.7 | 15.7 | 16.4 |
| Time (hour) | 7 | 8 | 9 | 10 | 11 | 12 |
| Temperature (°C) | 16.7 | 17.1 | 17.2 | 17.5 | 17.7 | 18.2 |
| Time (hour) | 13 | 14 | 15 | 16 | 17 | 18 |
| Temperature (°C) | 19.2 | 20.3 | 21.6 | 22.8 | 23.8 | 24.8 |
| Time (hour) | 19 | 20 | 21 | 22 | 23 | 24 |
| Temperature (°C) | 26 | 27 | 28.8 | 30.4 | 32.1 | 33.5 |

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- The declaration of conformity is based on acceptance limits chosen based on simple acceptance ($w = 0$, $AL = TL$).

Statements of conformity are reported as:

Passed - The measured values were observed in tolerance at the points tested.

Failed - One or more measured values were observed out of tolerance at the points tested.



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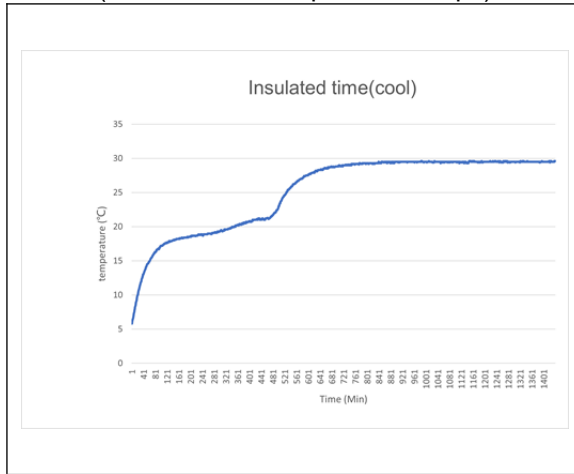
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Sample Photo:

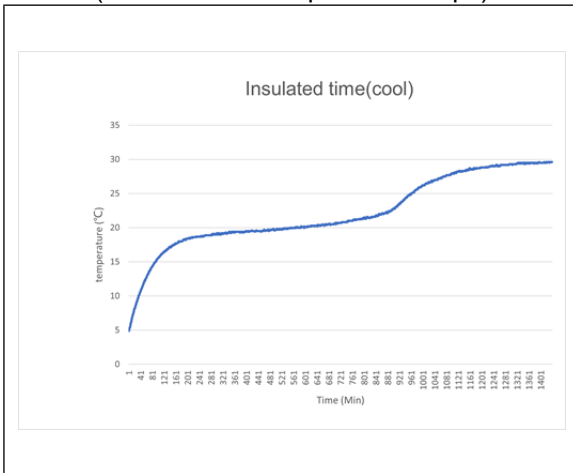
Test sample



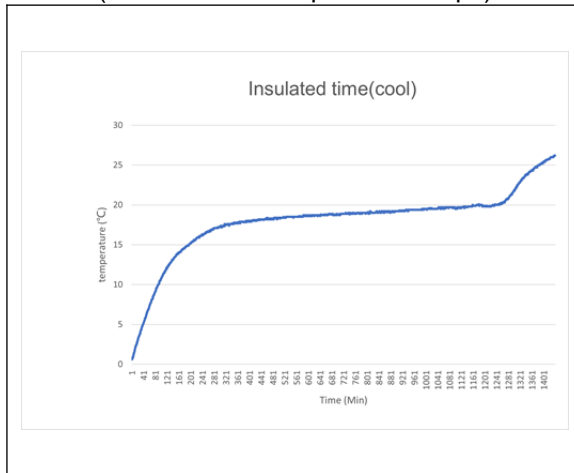
Insulation performance curve chart
(30°C Thermos cup + 2 ice strips)



Insulation performance curve chart
(30°C Thermos cup + 4 ice strips)



Insulation performance curve chart
(30°C Thermos cup + 6 ice strips)



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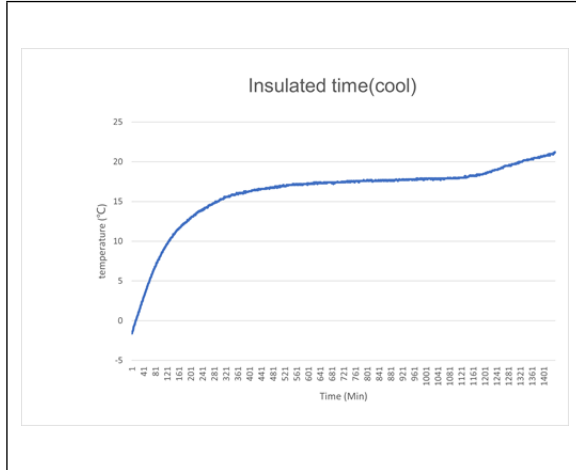
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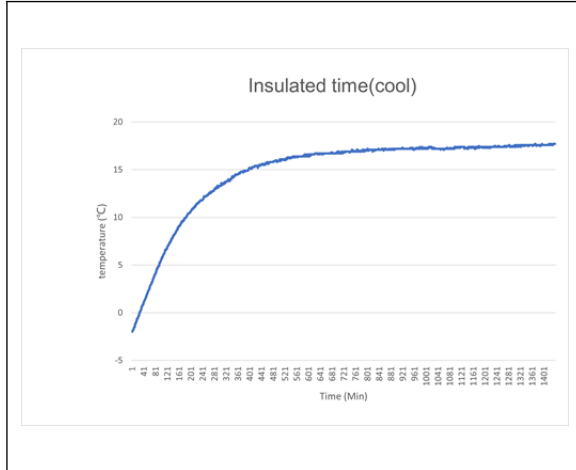
Date: MAR. 04, 2025

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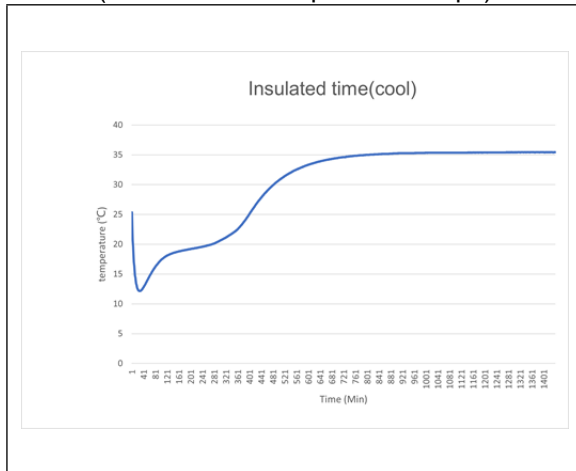
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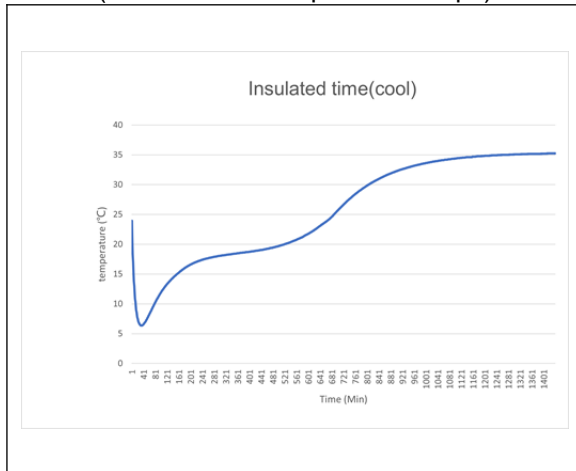
Insulation performance curve chart
(30°C Thermos cup + 10 ice strips)



Insulation performance curve chart
(35°C Thermos cup + 2 ice strips)



Insulation performance curve chart
(35°C Thermos cup + 4 ice strips)



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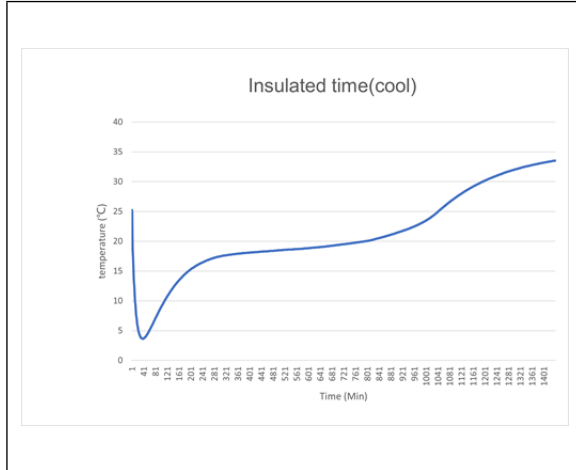
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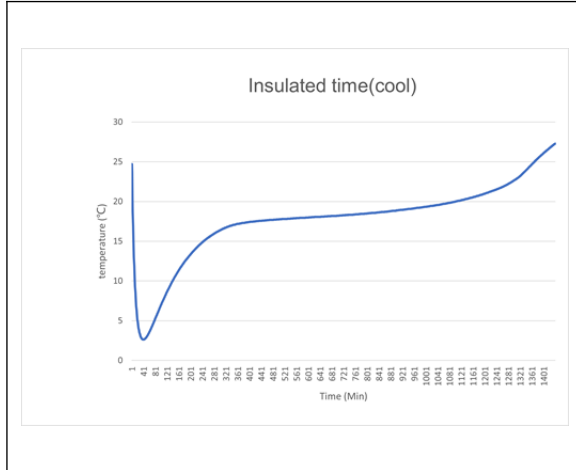
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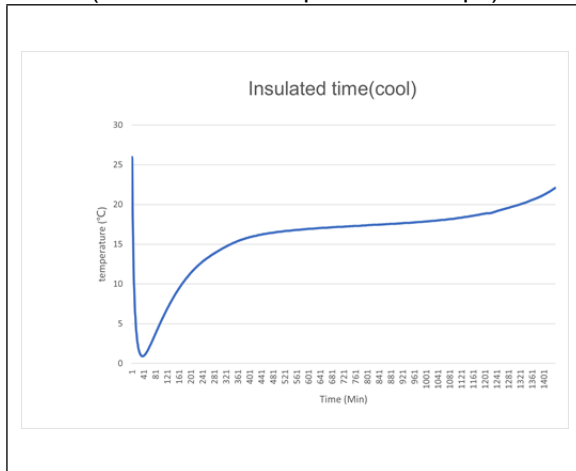
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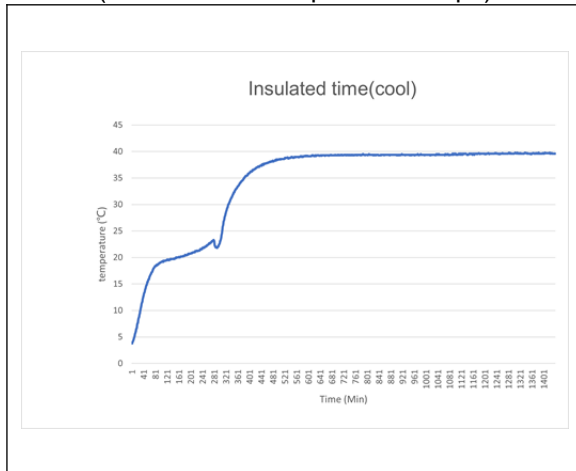
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(35°C Thermos cup + 8 ice strips)



Insulation performance curve chart
(35°C Thermos cup + 10 ice strips)



Insulation performance curve chart
(40°C Thermos cup + 2 ice strips)



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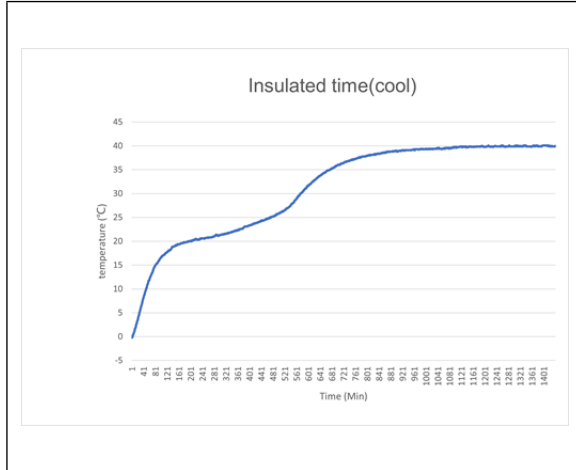
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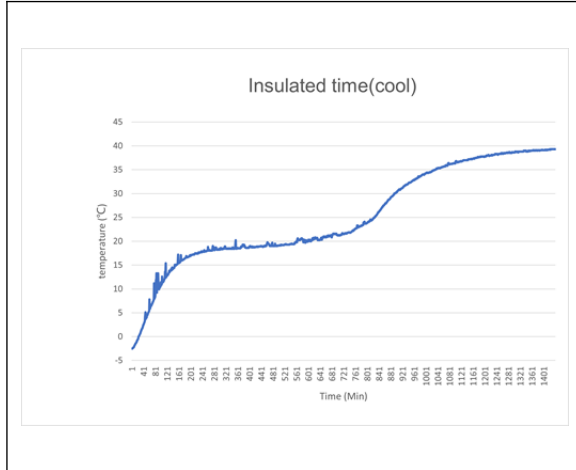
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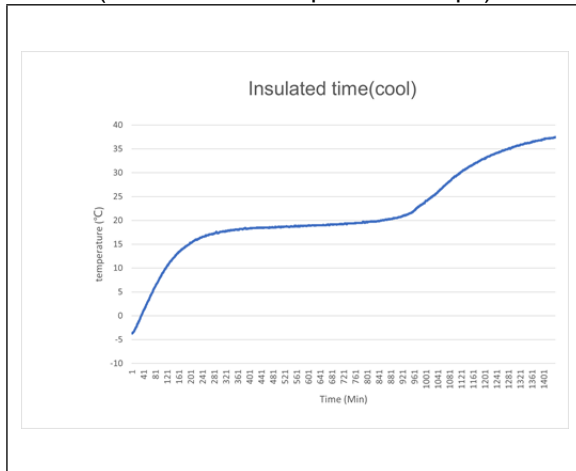
Insulation performance curve chart
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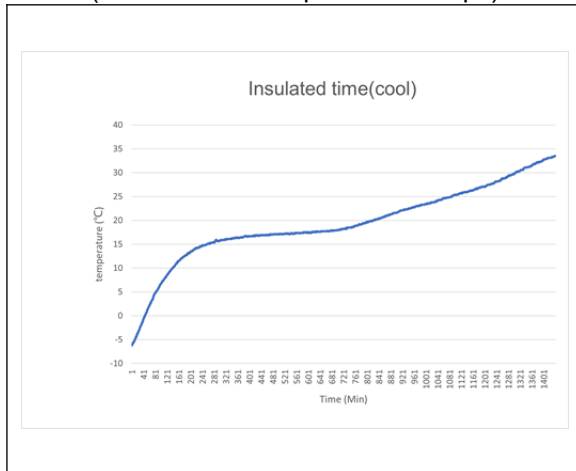
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