



Test Report

No.: SHHL250200577001CW

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 : Small 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



3EAB9227



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Test Conducted:

Test Item	Test Requirements and Methods	Result
Small Thermos Cup + Ice Strips	Place 5 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 + 1 ice strip, thermos cup + 2 ice strips, thermos cup + 3 ice strips, thermos cup + 4 ice strips, thermos cup + 5 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 + 1 ice strips

Time (hour)	1	2	3	4	5	6
Temperature (°C)	9	16.8	18.9	19.6	20.2	21.1
Time (hour)	7	8	9	10	11	12
Temperature (°C)	23.6	27	28.3	28.8	29.1	29.2
Time (hour)	13	14	15	16	17	18
Temperature (°C)	29.3	29.3	29.3	29.5	29.5	29.4
Time (hour)	19	20	21	22	23	24
Temperature (°C)	29.4	29.3	29.5	29.3	29.5	29.4

Ambient temperature: 30°C

Test sample: Thermos cup + 2 ice strips

Time (hour)	1	2	3	4	5	6
Temperature (°C)	5.3	13.3	16.3	17.8	18.3	18.7
Time (hour)	7	8	9	10	11	12
Temperature (°C)	19	19.1	19.5	19.9	21.3	25.3
Time (hour)	13	14	15	16	17	18
Temperature (°C)	27.2	28.2	28.7	29	29.2	29.4



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Time (hour)	19	20	21	22	23	24
Temperature (°C)	29.4	29.3	29.5	29.4	29.5	29.5

Ambient temperature: 30°C

Test sample: Thermos cup + 3 ice strips

Time (hour)	1	2	3	4	5	6
Temperature (°C)	2.8	9.3	13.3	15.4	16.5	17.2
Time (hour)	7	8	9	10	11	12
Temperature (°C)	17.6	17.7	17.7	18	18.2	18.2
Time (hour)	13	14	15	16	17	18
Temperature (°C)	18.4	18.5	18.9	20.5	23.6	25.7
Time (hour)	19	20	21	22	23	24
Temperature (°C)	26.9	27.7	28.2	28.6	28.8	29

Ambient temperature: 30°C

Test sample: Thermos cup + 4 ice strips

Time (hour)	1	2	3	4	5	6
Temperature (°C)	2.7	8.5	12.7	14.8	16.1	17.1
Time (hour)	7	8	9	10	11	12
Temperature (°C)	17.6	17.9	17.9	18.2	18.4	18.5
Time (hour)	13	14	15	16	17	18
Temperature (°C)	18.5	18.7	18.9	19.2	19.3	20
Time (hour)	19	20	21	22	23	24
Temperature (°C)	20.7	21.5	22.8	24.7	26.1	27

Ambient temperature: 30°C

Test sample: Thermos cup + 5 ice strips

Time (hour)	1	2	3	4	5	6
Temperature (°C)	1.5	6.1	10.5	13	14.6	15.8
Time (hour)	7	8	9	10	11	12
Temperature (°C)	16.3	16.7	16.9	17.2	17.4	17.4



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Time (hour)	13	14	15	16	17	18
Temperature (°C)	17.6	17.6	17.7	17.9	17.9	18
Time (hour)	19	20	21	22	23	24
Temperature (°C)	18.2	18.4	18.9	19.7	20.8	22.1

Ambient temperature: 35°C

Test sample: Thermos cup + 1 ice strips

Time (hour)	1	2	3	4	5	6
Temperature (°C)	6.8	17.7	20.1	21.4	24	29.4
Time (hour)	7	8	9	10	11	12
Temperature (°C)	32.7	33.8	34.3	34.4	34.5	34.5
Time (hour)	13	14	15	16	17	18
Temperature (°C)	34.5	34.6	34.5	34.7	34.6	34.6
Time (hour)	19	20	21	22	23	24
Temperature (°C)	34.6	34.6	34.7	34.7	34.8	34.8

Ambient temperature: 35°C

Test sample: Thermos cup + 2 ice strips

Time (hour)	1	2	3	4	5	6
Temperature (°C)	3.2	13.5	17.5	18.8	19.4	20
Time (hour)	7	8	9	10	11	12
Temperature (°C)	20.8	21	25.7	30	32.3	33.4
Time (hour)	13	14	15	16	17	18
Temperature (°C)	34	34.4	34.5	34.7	34.7	34.7
Time (hour)	19	20	21	22	23	24
Temperature (°C)	34.8	34.8	34.8	34.8	34.9	34.9

Ambient temperature: 35°C

Test sample: Thermos cup + 3 ice strips

Time (hour)	1	2	3	4	5	6
Temperature (°C)	1.8	10.2	14.9	17	17.9	18.2



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Time (hour)	7	8	9	10	11	12
Temperature (°C)	18.5	18.9	19.2	19.5	20.7	25.4
Time (hour)	13	14	15	16	17	18
Temperature (°C)	28.8	30.8	32.2	33	33.6	33.9
Time (hour)	19	20	21	22	23	24
Temperature (°C)	34.1	34.3	34.5	34.5	34.7	34.7

Ambient temperature: 35°C

Test sample: Thermos cup + 4 ice strips

Time (hour)	1	2	3	4	5	6
Temperature (°C)	-0.6	7.1	13	15.5	16.9	17.6
Time (hour)	7	8	9	10	11	12
Temperature (°C)	17.9	18.3	18.4	18.7	19	19.4
Time (hour)	13	14	15	16	17	18
Temperature (°C)	20.2	22	24.8	27.8	29.8	31.2
Time (hour)	19	20	21	22	23	24
Temperature (°C)	32.2	32.9	33.5	33.8	34.2	34.3

Ambient temperature: 35°C

Test sample: Thermos cup + 5 ice strips

Time (hour)	1	2	3	4	5	6
Temperature (°C)	-1.9	4.7	10.9	14.1	15.8	16.8
Time (hour)	7	8	9	10	11	12
Temperature (°C)	17.3	17.6	17.7	17.8	18	18.2
Time (hour)	13	14	15	16	17	18
Temperature (°C)	18.6	18.9	19.4	21.2	24.3	27.1
Time (hour)	19	20	21	22	23	24
Temperature (°C)	29.1	30.6	31.6	32.5	33.1	29.1

Ambient temperature: 40°C

Test sample: Thermos cup + 1 ice strips



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Time (hour)	1	2	3	4	5	6
Temperature (°C)	5.2	18	20.3	21.5	28.5	35.2
Time (hour)	7	8	9	10	11	12
Temperature (°C)	38	39	39.3	39.4	39.5	39.6
Time (hour)	13	14	15	16	17	18
Temperature (°C)	39.5	39.6	39.6	39.6	39.6	39.6
Time (hour)	19	20	21	22	23	24
Temperature (°C)	39.6	39.6	39.7	39.9	39.9	39.8

Ambient temperature: 40°C

Test sample: Thermos cup + 2 ice strips

Time (hour)	1	2	3	4	5	6
Temperature (°C)	2.2	14.3	19.5	20.2	20.8	21.5
Time (hour)	7	8	9	10	11	12
Temperature (°C)	23.1	29.2	34.4	37	38.3	39
Time (hour)	13	14	15	16	17	18
Temperature (°C)	39.4	39.5	39.6	39.7	39.8	39.8
Time (hour)	19	20	21	22	23	24
Temperature (°C)	39.8	39.8	39.9	40.1	40	40

Ambient temperature: 40°C

Test sample: Thermos cup + 3 ice strips

Time (hour)	1	2	3	4	5	6
Temperature (°C)	-0.4	10	16.2	18.2	19	19.2
Time (hour)	7	8	9	10	11	12
Temperature (°C)	19.7	20.2	21.4	24.1	30.1	33.6
Time (hour)	13	14	15	16	17	18
Temperature (°C)	35.8	37.2	38	38.5	38.8	39.1
Time (hour)	19	20	21	22	23	24
Temperature (°C)	39.2	39.4	39.5	39.7	39.8	39.7



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Ambient temperature: 40°C

Test sample: Thermos cup + 4 ice strips

Time (hour)	1	2	3	4	5	6
Temperature (°C)	-2.3	6.3	13.6	16.7	18	18.3
Time (hour)	7	8	9	10	11	12
Temperature (°C)	18.5	18.7	19	19.4	20	21.8
Time (hour)	13	14	15	16	17	18
Temperature (°C)	26.2	30.2	32.9	34.9	36.3	37.3
Time (hour)	19	20	21	22	23	24
Temperature (°C)	37.8	38.5	38.8	39.2	39.3	39.4

Ambient temperature: 40°C

Test sample: Thermos cup + 5 ice strips

Time (hour)	1	2	3	4	5	6
Temperature (°C)	-3	3.7	11	14.7	16.7	17.4
Time (hour)	7	8	9	10	11	12
Temperature (°C)	17.7	17.7	17.9	18	18.2	18.4
Time (hour)	13	14	15	16	17	18
Temperature (°C)	18.6	19.4	22.8	27.8	31	33.3
Time (hour)	19	20	21	22	23	24
Temperature (°C)	35	36.2	37.2	38	38.5	38.8

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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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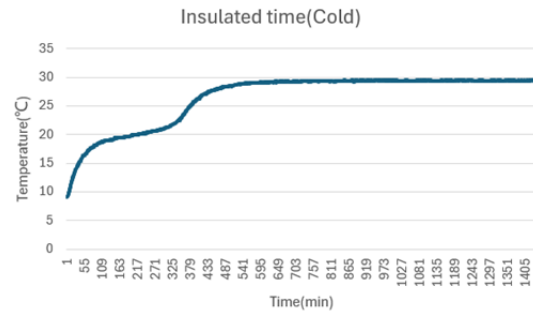
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Sample Photo:

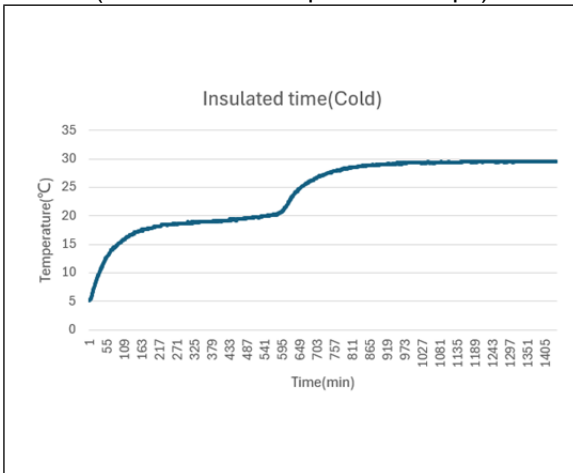
Test sample



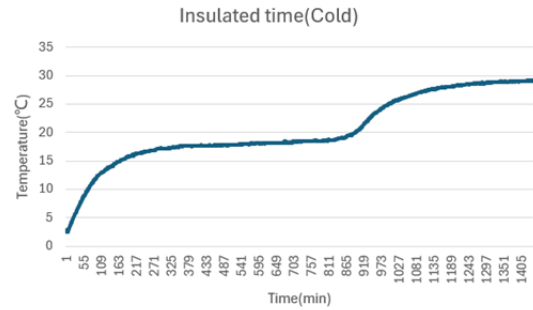
Insulation performance curve chart
(30°C Thermos cup + 1 ice strips)



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



Insulation performance curve chart
(30°C Thermos cup + 3 ice strips)



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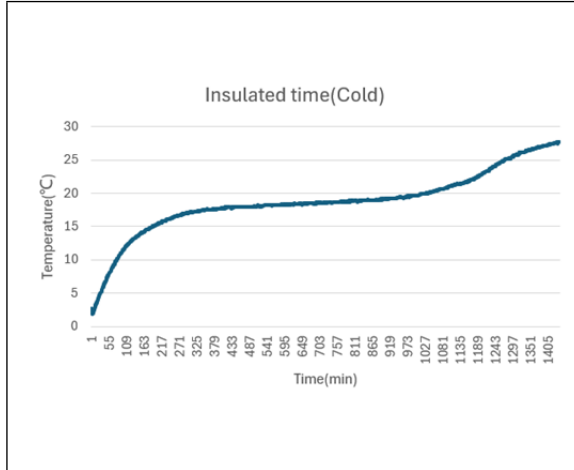
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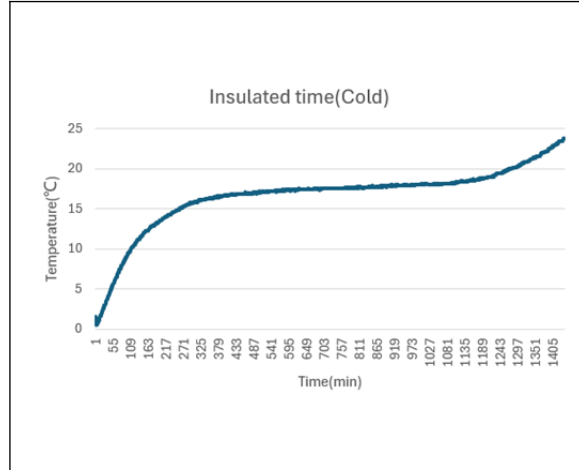
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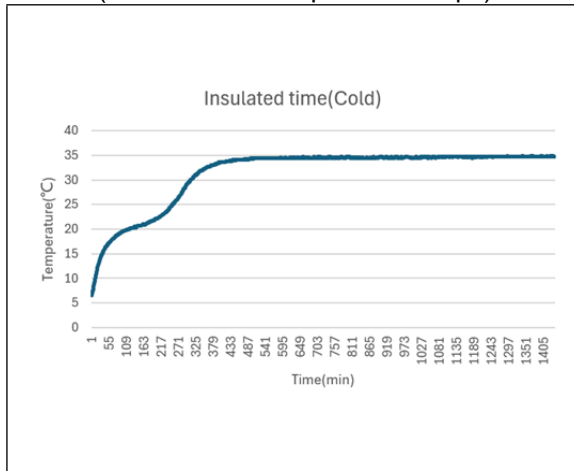
Insulation performance curve chart
(30°C Thermos cup + 4 ice strips)



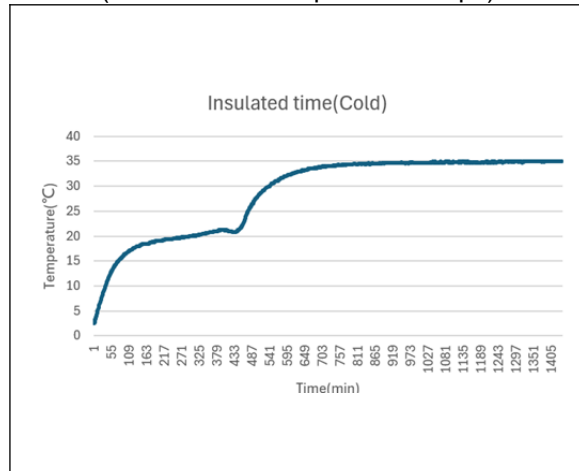
Insulation performance curve chart
(30°C Thermos cup + 5 ice strips)



Insulation performance curve chart
(35°C Thermos cup + 1 ice strips)



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



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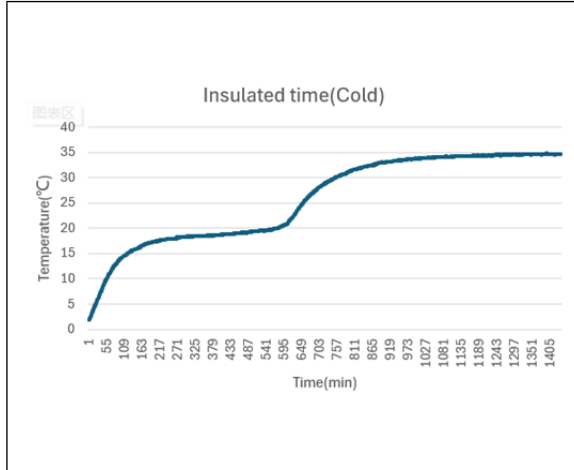
Test Report

No.: SHHL250200577001CW

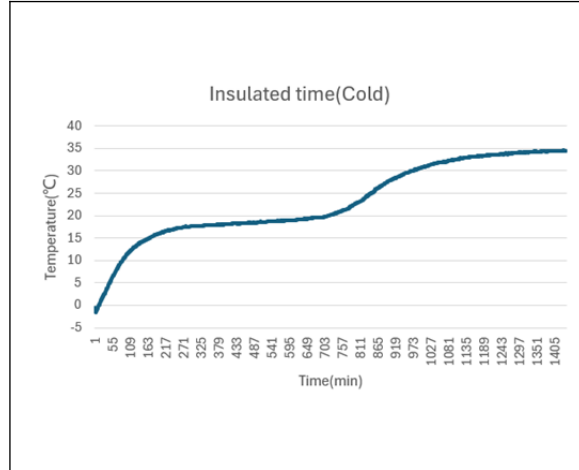
Date: MAR. 04, 2025

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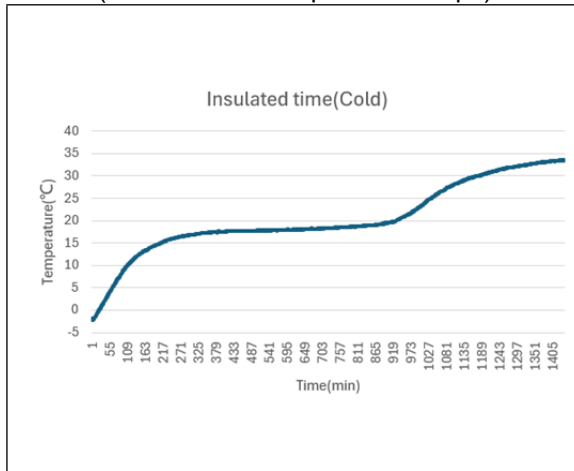
Insulation performance curve chart
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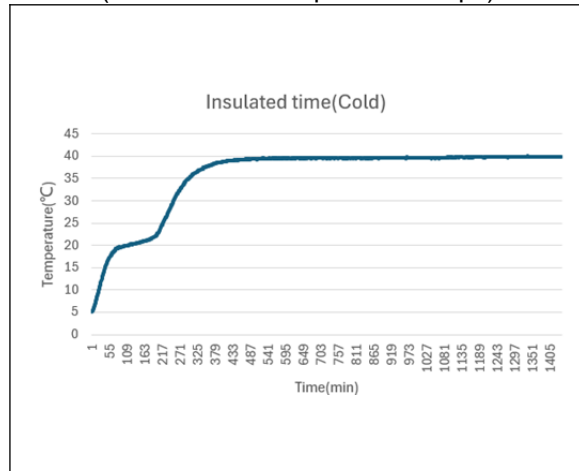
Insulation performance curve chart
(35°C Thermos cup + 4 ice strips)



Insulation performance curve chart
(35°C Thermos cup + 5 ice strips)



Insulation performance curve chart
(40°C Thermos cup + 1 ice strips)



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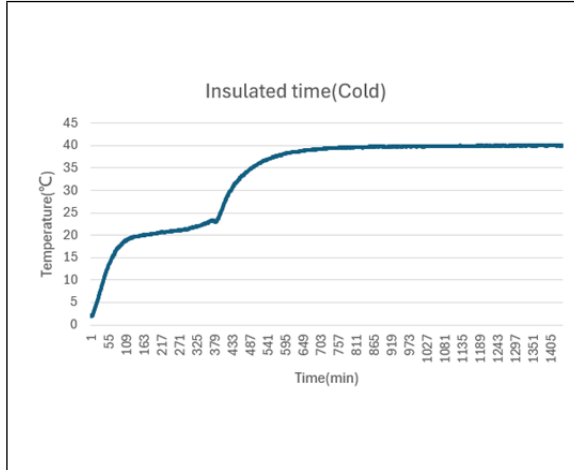
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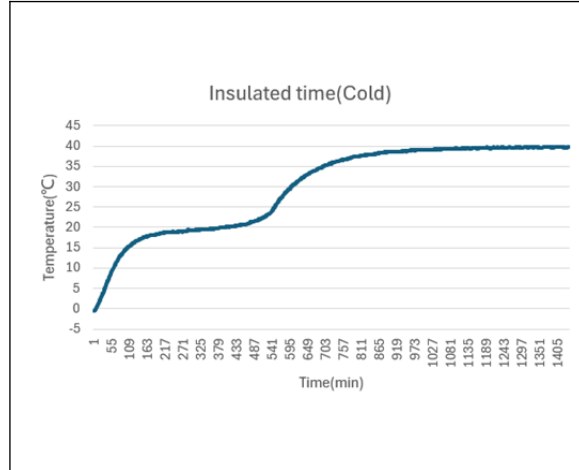
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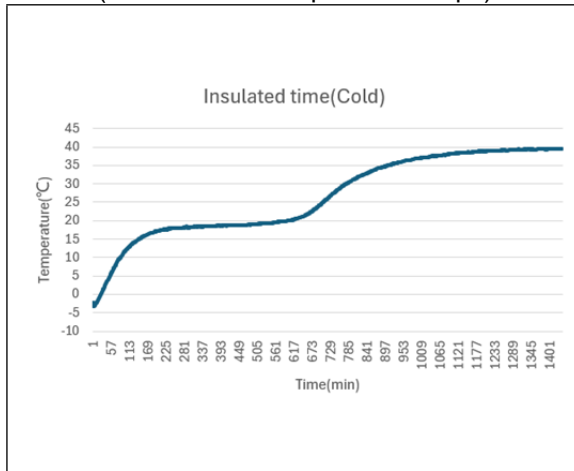
Insulation performance curve chart
(40°C Thermos cup + 2 ice strips)



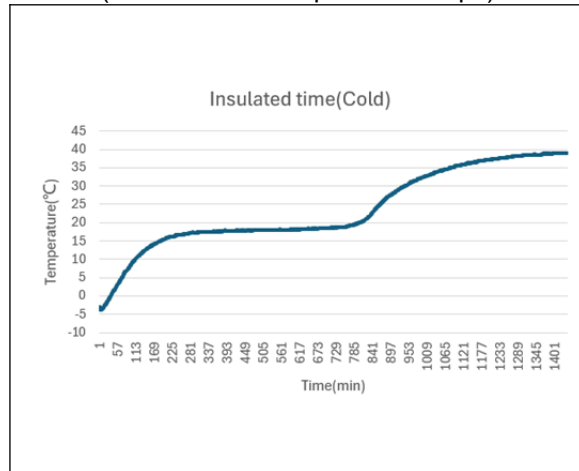
Insulation performance curve chart
(40°C Thermos cup + 3 ice strips)



Insulation performance curve chart
(40°C Thermos cup + 4 ice strips)



Insulation performance curve chart
(40°C Thermos cup + 5 ice strips)



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End of Report



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