PRIME HORIZON
34 OSLO TOWER, NAOMI ST, SE85EP, LONDON, UK

Sample Description : STAINLESS STEEL THERMOS FOOD FLASK

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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Sample Receiving Date : Jan 04, 2021

Test Performing Date : Jan 04, 2021 to Jan 13, 2021

Test Performed : Selected test(s) as requested by applicant

Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

scan to see the report

GZHL2101000144CW

Arthur Mak
Authorized Signatory

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Ⅰ. Test Conducted: Base on EN 12546-1:2000 including Corrigendum March 2005 Materials articles in contact with foodstuffs- Insulated containers for domestic use-Part 1: Specification for vacuum ware, insulated flasks and jugs

1. Scope: This part of EN 12546 specifies requirements for vacuum ware and other insulated flasks, carafes, jugs etc. for domestic use with food or drinks. This standard does not apply to containers for industrial or catering uses. It does not deal with the requirements for materials in contact with food which are defined by legislation already in existence.

2.Test samples: 3 PCS

3. Sample definition: Vacuum Insulated Food Flask

4. Nominal capacity: 485ml

5. Test details shown as following tables:

<table>
<tr><th>Clause</th><th>Test Method/Requirement</th><th>Test Result</th></tr>
<tr><td>3</td><td>Requirements</td><td></td></tr>
<tr><td>3.1</td><td>General</td><td>---</td></tr>
<tr><td>3.2</td><td>Pouring
No spluttering shall occur when liquid is poured out of the insulated container in accordance with 5.2.</td><td>NA</td></tr>
<tr><td>3.3</td><td>Stability
The insulated container shall not overbalance when tested in accordance with 5.3.</td><td>Pass</td></tr>
<tr><td rowspan="2">3.4</td><td>Heat loss
For vacuum insulated containers
Temperatures measured in accordance with 5.4 shall be no lower than those specified in table:
<table>
<tr><th>Capacity (in ml)</th><th>Flasks</th><th>Carafes</th><th>Food-flasks</th><th>Air-pots</th></tr>
<tr><td>0 to 200</td><td>60</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td>201 to 400</td><td>65</td><td>60</td><td>50</td><td>50</td></tr>
<tr><td>401 to 600</td><td>70</td><td>65</td><td>60</td><td>60</td></tr>
<tr><td>601 to 800</td><td>75</td><td>70</td><td>62</td><td>70</td></tr>
<tr><td>801 to 1200</td><td>78</td><td>75</td><td>66</td><td>70</td></tr>
<tr><td>>1200</td><td>80</td><td>78</td><td>70</td><td>75</td></tr>
</table></td><td>Pass
Temperature after test: 70.2℃</td></tr>
<tr><td>For non-vacuum insulated containers
Temperatures measured in accordance with 5.4 shall be no lower than those specified in table:
<table>
<tr><th>Capacity (in ml)</th><th>Flasks</th><th>Carafes</th><th>Air-pots</th><th>Food-flasks</th><th>Cool jug / barrel</th></tr>
<tr><td>0 to 200</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td>201 to 400</td><td>38</td><td>38</td><td>38</td><td>35</td><td>35</td></tr>
<tr><td>401 to 600</td><td>40</td><td>40</td><td>40</td><td>37</td><td>37</td></tr>
<tr><td>601 to 800</td><td>45</td><td>45</td><td>45</td><td>42</td><td>42</td></tr>
<tr><td>801 to 1200</td><td>50</td><td>50</td><td>50</td><td>47</td><td>47</td></tr>
<tr><td>>1200</td><td>55</td><td>55</td><td>55</td><td>52</td><td>52</td></tr>
</table></td><td>NA</td></tr>
</table>

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Clause	Test Method/Requirement	Test Result
3.5	Thermal shock A container shall not be damaged when tested in accordance with 5.5.	Pass
3.6	Stopper leakage For flasks Flasks shall not leak when tested in accordance with 5.6.1. For cool jugs / barrels Cool jugs / barrels fitted with stoppers shall not leak when tested in accordance with 5.6.2.	NA
3.7	Seal leakage For vacuum insulated containers There shall be no leakage between the outer protective case and the filler when tested in accordance with 5.7. For non-vacuum insulated containers If the container is manufactured with a seal, there shall be no leakage between the outer protective case and the filler when tested in accordance with 5.7.	Pass
3.8	Impact For vacuum insulated containers The insulated container shall not break when tested in accordance with 5.8.1. For non-vacuum insulated containers After testing in accordance with 5.8.2 the flasks shall not leak. Resulting damage shall not impair the thermal performance as given in 3.4.	Pass
3.9	Handle Products with handles shall not be damaged when tested in accordance with 5.9.	NA
6	Marking, labeling	
6.1	The marking and labeling requirements as specified in table 5.	---
6.2	The insulated container shall be legibly and permanently marked by means of embossing, engraving, printing or non removable labels showing the name or identification mark of the manufacturer, distributor or vendor and the nominal capacity of the product to within ± 10%. In addition, the container shall be marked or labelled with the number of this European Standard, i.e. EN 12546-1.	NT
6.3	The insulated container shall be supplied with a hang tag or label indicating either the words “FOR TABLE TOP USE ONLY” or pictogram.	NT

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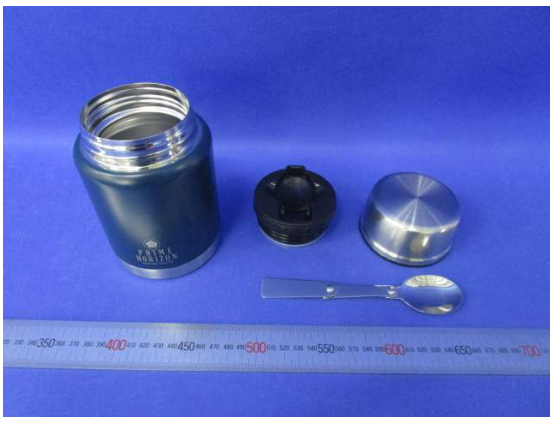
Clause	Test Method/Requirement	Test Result
6.4	the insulated container shall be supplied with an instruction leaflet containing at least the following information and statements a) 'Do not use for the carrying or storage of ice cubes unless equipped with a plastic insert because the transportation of ice cubes might damage the inner liner', b) 'Do not use to store or carry carbonated drinks', unless clearly and positively marked by the manufacturer. c) 'In order to minimize bacterial growth, do not use to keep warm milk products or baby food' d) 'Glass inner fillers are fragile. If mishandled or dropped the inner filler may break. Do not drink directly from the container as the contents could contain broken glass, especially if there are signs of leakage' e) 'Per-heat or per-cool the container with water to ensure efficient use and to reduce the risk of breakage of the glass filler. Never use microwave or conventional ovens for this purpose' f) 'The container should be periodically cleaned. The best results are obtained using a mixture of water and bicarbonate of soda or washing up liquid. Rinse thoroughly afterwards' g) 'Never use in a dishwasher', unless otherwise stated by the manufacturer.	NT

Remark:
1. NA – Not applicable
2. NT – Not test as per client's requirement;

Sample photo:



Sample as received



Sample as received

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Ⅱ. SGS Ref No.: CANHG2100108301

Result Summary :

Test Requested	Conclusion
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,Council of Europe Resolution CM/Res(2013)9–Extractable heavy metal	PASS

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN21-001083.001	Silvery metal bottle(inner)	Stainless steel(SUS 304)

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,Council of Europe Resolution CM/Res(2013)9–Extractable heavy metal

Test Method : With reference to EN13130-1:2004 for selection of test method; analysis was performed by ICP-OES and ICP-MS.

Sample 001:

Simulant Used : 0.5% Citric acid (W/V) aqueous solution

Test Condition : 100℃ 24.0hr(s)

The ratio of surface area to volume was : 5.8 dm²/kg

Test Item(s)	Limit	Unit	MDL	*1st + 2nd Migration*
Aluminium(Al)	35	mg/kg	0.2	ND
Antimony(Sb)	0.28	mg/kg	0.02	ND
Chromium(Cr)	1.75	mg/kg	0.1	ND
Cobalt(Co)	0.14	mg/kg	0.01	ND
Copper(Cu)	28	mg/kg	0.1	ND
Iron(Fe)	280	mg/kg	0.25	0.59
Manganese(Mn)	12.6	mg/kg	0.25	ND
Molybdenum(Mo)	0.84	mg/kg	0.02	ND
Nickel(Ni)	0.98	mg/kg	0.05	ND
Silver(Ag)	0.56	mg/kg	0.03	ND
Tin (Sn)	700	mg/kg	5	ND

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Test Item(s)	Limit	Unit	MDL	*1st + 2nd Migration*
Vanadium(V)	0.07	mg/kg	0.005	ND
Zinc(Zn)	35	mg/kg	1	ND
Arsenic(As)	0.014	mg/kg	0.001	ND
Barium(Ba)	8.4	mg/kg	0.25	ND
Beryllium(Be)	0.07	mg/kg	0.005	ND
Cadmium(Cd)	0.035	mg/kg	0.002	ND
Lead(Pb)	0.07	mg/kg	0.005	0.010
Lithium(Li)	0.336	mg/kg	0.02	ND
Mercury(Hg)	0.021	mg/kg	0.002	ND
Thallium(Tl)	0.0007	mg/kg	0.0001	ND

Test Item(s)	Limit	Unit	MDL	*3rd Migration*
Aluminium(Al)	5	mg/kg	0.2	ND
Antimony(Sb)	0.04	mg/kg	0.02	ND
Chromium(Cr)	0.25	mg/kg	0.1	ND
Cobalt(Co)	0.02	mg/kg	0.01	ND
Copper(Cu)	4	mg/kg	0.1	ND
Iron(Fe)	40	mg/kg	0.25	ND
Manganese(Mn)	1.8	mg/kg	0.25	ND
Molybdenum(Mo)	0.12	mg/kg	0.02	ND
Nickel(Ni)	0.14	mg/kg	0.05	ND
Silver(Ag)	0.08	mg/kg	0.03	ND
Tin (Sn)	100	mg/kg	5	ND
Vanadium(V)	0.01	mg/kg	0.005	ND
Zinc(Zn)	5	mg/kg	1	ND
Arsenic(As)	0.002	mg/kg	0.001	ND
Barium(Ba)	1.2	mg/kg	0.25	ND
Beryllium(Be)	0.01	mg/kg	0.005	ND
Cadmium(Cd)	0.005	mg/kg	0.002	ND
Lead(Pb)	0.01	mg/kg	0.005	ND
Lithium(Li)	0.048	mg/kg	0.02	ND
Mercury(Hg)	0.003	mg/kg	0.002	ND
Thallium(Tl)	0.0001	mg/kg	0.0001	ND

Notes :

1.mg/kg = milligram per kilogram of foodstuff in contact with

2.MDL = Method Detection Limit

3.ND = Not Detected (< MDL)

4.According to Council of Europe Resolution CM/Res(2013)9, the result from 3rd migration shall comply with the Specific Release Limit (SRL) and the sum of 1st and 2nd migration shall not exceed seven times of SRL for repeated use articles

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Sample photo:



CAN21-001083.001

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