



# TEST REPORT

Report No.: STSGZ2208153052E

Date: 23-Aug-2022

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**Applicant :** Mid Ocean Brands B.V.

**Address:** 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

**Sample Name:** Double wall mug

**Model/Style/Item #:** MO6700

**Receiving Date:** 15-Aug-2022

**Test Period:** From 15-Aug-2022 to 20-Aug-2022

**Add Information:** -

## Test Summary:

| # | Test item(s)   | Reference Standard/Method                             | Result      |
|---|--|---|-------------|
| 1 | Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006                                       | IEC 62321-5:2013, determined by AAS                   | <b>PASS</b> |
| 2 | Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006  | IEC 62321-5:2013, determined by AAS                   | <b>PASS</b> |
| 3 | Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006. | EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS | <b>PASS</b> |
| 4 | Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)            | BS EN 12875-1:2005                                    | <b>PASS</b> |

\*\*\*\*\*

Signed for and on behalf of STS

Tim Qi  
(Technical Director)



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| #  | Test item(s)  | Reference Standard/Method               | Result |
|----|---|---|--------|
| 5  | Overall migration - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 - For Plastic Material                            | EN 1186-1:2002 & EN 1186-3:2002         | PASS   |
| 6  | Specific migration of Heavy Metal - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 - For Plastic Material            | EN 13130-1: 2004, determined by ICP-OES | PASS   |
| 7  | Specific migration of Primary Aromatic Amine - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 - For Plastic Material | EN 13130-1:2004, determined by GC/MS    | PASS   |
| 8  | Bisphenol A (BPA) content - Regulation (EC) No 1935/2004, French Decree 2007- 766, DGCCRF 2004-64 For Plastic Material  | In-house Method, determined by LC-MS    | PASS   |
| 9  | Overall migration - Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material  | EN 1186-1:2002 & EN 1186-3:2002         | PASS   |
| 10 | Bisphenol A Contents - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992- For Silicone Material   | In-house Method, determined by LC-MS    | PASS   |
| 11 | Overall migration - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992- For Silicone Material  | EN 1186-1:2002 & EN 1186-3:2002         | PASS   |
| 12 | Volatile Compounds Content - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992- For Silicone Material   | Order 25/11/1992                        | PASS   |
| 13 | Peroxides value - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992- For Silicone Material  | French pharmacopoeia method             | PASS   |
| 14 | Organotin Content for Silicone Materials in Contact with Foodstuffs   | EN 13130-1:2004, determined by ICP-OES  | PASS   |

## Result:

### 1. Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

| Compound                    | Material    |             |             |             | Limit (mg/kg) | RL (mg/kg) |
|-----------------------------|-------------|-------------|-------------|-------------|---------------|------------|
|                             | 1           | 2           | 3           | 4           |               |            |
| 1 Lead(Pb)<br>CAS#7439-92-1 | N.D.        | N.D.        | N.D.        | N.D.        | 500           | 10         |
| <b>Conclusion</b>           | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | -             | -          |

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| Compound          | Material                  |             |  |  | Limit (mg/kg) | RL (mg/kg) |    |
|-------------------|---------------------------|-------------|--|--|---------------|------------|----|
|                   | 5                         |             |  |  |               |            |    |
| 1                 | Lead(Pb)<br>CAS#7439-92-1 | N.D.        |  |  |               | 500        | 10 |
| <b>Conclusion</b> |                           | <b>PASS</b> |  |  |               | -          | -  |

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 2. Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

| Compound          | Material                      |             |             |             | Limit (mg/kg) | RL (mg/kg) |    |
|-------------------|-------------------------------|-------------|-------------|-------------|---------------|------------|----|
|                   | 1                             | 2           | 3           | 5           |               |            |    |
| 1                 | Cadmium (Cd)<br>CAS#7440-43-9 | N.D.        | N.D.        | N.D.        | N.D.          | 100        | 10 |
| <b>Conclusion</b> |                               | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b>   | -          | -  |

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 3. Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006 EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

| Compound | Material |  |      |      | Limit (%) | RL (%) |   |       |
|----------|----------|--|------|------|-----------|--------|---|-------|
|          | 1        | 2  | 3    | 5    |           |        |   |       |
| 1        | DBP      | Dibutyl Phthalate<br>CAS# 84-74-2            | N.D. | N.D. | N.D.      | N.D.   | - | 0.005 |
| 2        | BBP      | Benzylbutyl Phthalate<br>CAS# 85-68-7        | N.D. | N.D. | N.D.      | N.D.   | - | 0.005 |
| 3        | DEHP     | Bis-(2-ethylhexyl)Phthalate<br>CAS# 117-81-7 | N.D. | N.D. | N.D.      | N.D.   | - | 0.005 |
| 4        | DIBP     | Diisobutyl phthalate<br>CAS# 84-69-5         | N.D. | N.D. | N.D.      | N.D.   | - | 0.005 |
| 5        | DNOP     | Di-n-octyl phthalate<br>CAS# 117-84-0        | N.D. | N.D. | N.D.      | N.D.   | - | 0.005 |
| 6        | DINP     | Di-iso-nonyl phthalate<br>CAS# 28553-12-0    | N.D. | N.D. | N.D.      | N.D.   | - | 0.005 |
| 7        | DIDP     | Diisodecyl phthalate<br>CAS# 26761-40-0      | N.D. | N.D. | N.D.      | N.D.   | - | 0.005 |

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|                   |                    |             |             |             |             |     |   |
|-------------------|--------------------|-------------|-------------|-------------|-------------|-----|---|
| 8                 | Sum of 1, 2, 3 & 4 | N.D.        | N.D.        | N.D.        | N.D.        | 0.1 | - |
| 9                 | Sum of 5, 6 & 7    | N.D.        | N.D.        | N.D.        | N.D.        | 0.1 | - |
| <b>Conclusion</b> |                    | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | -   | - |

Remark(s): (a) RL: Report limit  
 (b) N.D.: Not detected (result is less than RL)

#### 4. Dishwasher safe test BS EN 12875-1:2005

|                 |  |          |
|-----------------|--|----------|
| After 10 cycles | <b>Sample</b>  | <b>6</b> |
|                 | Color <sup>1)</sup>                                    | 0        |
|                 | Gloss  | 0        |
|                 | Clouding   | 0        |
|                 | Resistant deposits and iridescent layers <sup>2)</sup> | 0        |
|                 | Other aspects  | 0        |

Remark(s): 1).If several colours are present on one article to be inspected, the colour with the greatest change shall be chosen.  
 2).For the elimination of easily removable deposits.  
 3).See photo bar for test photos

Note: Pictures are for reference only. Actual colours of the pictures may vary due to lighting and output process.  
 Evaluation of inspection criteria quoted from BS EN 12875-1:2005.

| Classification | Rating                   |
|----------------|--------------------------|
| 0              | No visible change        |
| 1              | First discernible change |
| 2              | Clearly visible change   |

Requirements quoted from Publicly Available Specification PAS 54: 2003  
 Articles that are designated "dishwasher resistant", "dishwasher proof", "dishwasher safe" or any other similar description that suggests that the articles can be safely cleaned in a dishwasher shall, either show no visible change compared with untreated tableware (Classification 0) or show very slightly visible change (Classification 1) but shall not show clearly visible change (Classification 2)

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## 5. Overall migration EN 1186-1:2002 & EN 1186-3:2002

| Test specification |                           | Result(s)       |                 |                 | Limit<br>(mg/dm <sup>2</sup> ) | RL<br>(mg/dm <sup>2</sup> ) |
|--------------------|---------------------------|-----------------|-----------------|-----------------|--------------------------------|-----------------------------|
|                    |                           | 1               |                 |                 |                                |                             |
|                    |                           | 1 <sup>st</sup> | 2 <sup>nd</sup> | 3 <sup>rd</sup> |                                |                             |
| 1                  | 10% Ethanol, 70 °C, 2h    | N.D.            | N.D.            | N.D.            | 10                             | 3                           |
| 2                  | 3% Acetic acid, 70 °C, 2h | N.D.            | N.D.            | N.D.            | 10                             | 3                           |
| 3                  | 50% Ethanol, 70 °C, 2h    | N.D.            | N.D.            | N.D.            | 10                             | 3                           |
| <b>Conclusion</b>  |                           | -               | -               | <b>PASS</b>     | -                              | -                           |

| Test specification |                           | Result(s)       |                 |                 | Limit<br>(mg/dm <sup>2</sup> ) | RL<br>(mg/dm <sup>2</sup> ) |
|--------------------|---------------------------|-----------------|-----------------|-----------------|--------------------------------|-----------------------------|
|                    |                           | 2               |                 |                 |                                |                             |
|                    |                           | 1 <sup>st</sup> | 2 <sup>nd</sup> | 3 <sup>rd</sup> |                                |                             |
| 1                  | 10% Ethanol, 70 °C, 2h    | N.D.            | N.D.            | N.D.            | 10                             | 3                           |
| 2                  | 3% Acetic acid, 70 °C, 2h | N.D.            | N.D.            | N.D.            | 10                             | 3                           |
| 3                  | 50% Ethanol, 70 °C, 2h    | N.D.            | N.D.            | N.D.            | 10                             | 3                           |
| <b>Conclusion</b>  |                           | -               | -               | <b>PASS</b>     | -                              | -                           |

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
 (b) RL: Report limit  
 (c) N.D.: Not detected (result is less than RL)

## 6. Specific migration of Heavy Metal EN 13130-1: 2004, determined by ICP-OES

Test condition: 3%Acetic acid, 40°C, 0.5h

| Compound |               | Result          |                 |                 | Limit<br>(mg/kg) | RL<br>(mg/kg) |
|----------|---------------|-----------------|-----------------|-----------------|------------------|---------------|
|          |               | 1               |                 |                 |                  |               |
|          |               | 1 <sup>st</sup> | 2 <sup>nd</sup> | 3 <sup>rd</sup> |                  |               |
| 1        | Aluminum (Al) | N.D.            | N.D.            | N.D.            | 1                | 0.1           |
| 2        | Antimony (Sb) | N.D.            | N.D.            | N.D.            | 0.04             | 0.01          |
| 3        | Arsenic (As)  | N.D.            | N.D.            | N.D.            | Not<br>Detected  | 0.01          |
| 4        | Barium (Ba)   | N.D.            | N.D.            | N.D.            | 1                | 0.1           |

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|                   |                 |      |      |             |              |       |
|-------------------|-----------------|------|------|-------------|--------------|-------|
| 5                 | Cadmium(Cd)     | N.D. | N.D. | N.D.        | Not Detected | 0.002 |
| 6                 | Chromium (Cr)   | N.D. | N.D. | N.D.        | Not Detected | 0.01  |
| 7                 | Cobalt (Co)     | N.D. | N.D. | N.D.        | 0.05         | 0.01  |
| 8                 | Copper (Cu)     | N.D. | N.D. | N.D.        | 5            | 0.5   |
| 9                 | Europium (Eu)   | N.D. | N.D. | N.D.        | 0.05         | 0.01  |
| 10                | Gadolinium (Gd) | N.D. | N.D. | N.D.        | 0.05         | 0.01  |
| 11                | Iron (Fe)       | N.D. | N.D. | N.D.        | 48           | 1     |
| 12                | Lanthanum (La)  | N.D. | N.D. | N.D.        | 0.05         | 0.01  |
| 13                | Lead(Pb)        | N.D. | N.D. | N.D.        | Not Detected | 0.01  |
| 14                | Lithium (Li)    | N.D. | N.D. | N.D.        | 0.6          | 0.1   |
| 15                | Manganese (Mn)  | N.D. | N.D. | N.D.        | 0.6          | 0.05  |
| 16                | Mercury(Hg)     | N.D. | N.D. | N.D.        | Not Detected | 0.01  |
| 17                | Nickel (Ni)     | N.D. | N.D. | N.D.        | 0.02         | 0.01  |
| 18                | Terbium (Tb)    | N.D. | N.D. | N.D.        | 0.05         | 0.01  |
| 19                | Zinc (Zn)       | N.D. | N.D. | N.D.        | 5            | 1     |
| <b>Conclusion</b> |                 | -    | -    | <b>PASS</b> | -            | -     |

| Compound        | Result          |                 |                 | Limit (mg/kg) | RL (mg/kg) |
|-----------------|-----------------|-----------------|-----------------|---------------|------------|
|                 | 2               |                 |                 |               |            |
|                 | 1 <sup>st</sup> | 2 <sup>nd</sup> | 3 <sup>rd</sup> |               |            |
| 1 Aluminum (Al) | N.D.            | N.D.            | N.D.            | 1             | 0.1        |
| 2 Antimony (Sb) | N.D.            | N.D.            | N.D.            | 0.04          | 0.01       |
| 3 Arsenic (As)  | N.D.            | N.D.            | N.D.            | Not Detected  | 0.01       |
| 4 Barium (Ba)   | N.D.            | N.D.            | N.D.            | 1             | 0.1        |
| 5 Cadmium(Cd)   | N.D.            | N.D.            | N.D.            | Not Detected  | 0.002      |
| 6 Chromium (Cr) | N.D.            | N.D.            | N.D.            | Not Detected  | 0.01       |
| 7 Cobalt (Co)   | N.D.            | N.D.            | N.D.            | 0.05          | 0.01       |

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|                   |                 |      |      |             |              |      |
|-------------------|-----------------|------|------|-------------|--------------|------|
| 8                 | Copper (Cu)     | N.D. | N.D. | N.D.        | 5            | 0.5  |
| 9                 | Europium (Eu)   | N.D. | N.D. | N.D.        | 0.05         | 0.01 |
| 10                | Gadolinium (Gd) | N.D. | N.D. | N.D.        | 0.05         | 0.01 |
| 11                | Iron (Fe)       | N.D. | N.D. | N.D.        | 48           | 1    |
| 12                | Lanthanum (La)  | N.D. | N.D. | N.D.        | 0.05         | 0.01 |
| 13                | Lead(Pb)        | N.D. | N.D. | N.D.        | Not Detected | 0.01 |
| 14                | Lithium (Li)    | N.D. | N.D. | N.D.        | 0.6          | 0.1  |
| 15                | Manganese (Mn)  | N.D. | N.D. | N.D.        | 0.6          | 0.05 |
| 16                | Mercury(Hg)     | N.D. | N.D. | N.D.        | Not Detected | 0.01 |
| 17                | Nickel (Ni)     | N.D. | N.D. | N.D.        | 0.02         | 0.01 |
| 18                | Terbium (Tb)    | N.D. | N.D. | N.D.        | 0.05         | 0.01 |
| 19                | Zinc (Zn)       | N.D. | N.D. | N.D.        | 5            | 1    |
| <b>Conclusion</b> |                 | -    | -    | <b>PASS</b> | -            | -    |

Remark(s): (a) mg/kg: milligram per kilogram  
 (b) RL: Report limit  
 (c) N.D.: Not detected (result is less than RL)  
 (d) This item is not included in CNAS accreditation scope

## 7. Specific migration of Primary Aromatic Amine EN 13130-1:2004, determined by GC/MS

Test Condition: 3%Acetic acid, 40°C, 0.5h

|                   | Compound                      | Result          |                 |                 | Limit (mg/kg) | RL (mg/kg) |
|-------------------|-------------------------------|-----------------|-----------------|-----------------|---------------|------------|
|                   |                               | 1               |                 |                 |               |            |
|                   |                               | 1 <sup>st</sup> | 2 <sup>nd</sup> | 3 <sup>rd</sup> |               |            |
| 1                 | Primary Aromatic Amines(PAAs) | N.D.            | N.D.            | N.D.            | 0.01          | 0.002      |
| <b>Conclusion</b> |                               | -               | -               | <b>PASS</b>     | -             | -          |

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| Compound | Result                        |                 |                 | Limit (mg/kg) | RL (mg/kg) |       |
|----------|-------------------------------|-----------------|-----------------|---------------|------------|-------|
|          | 2                             |                 |                 |               |            |       |
|          | 1 <sup>st</sup>               | 2 <sup>nd</sup> | 3 <sup>rd</sup> |               |            |       |
| 1        | Primary Aromatic Amines(PAAs) | N.D.            | N.D.            | N.D.          | 0.01       | 0.002 |
|          | <b>Conclusion</b>             | -               | -               | <b>PASS</b>   | -          | -     |

## 8. Bisphenol A (BPA) content In-house Method,determined by LC-MS

| Test Item | Material          |             | Client's Limit (mg/kg) | RL (mg/kg)   |      |
|-----------|-------------------|-------------|------------------------|--------------|------|
|           | 1                 | 2           |                        |              |      |
| 1         | Bisphenol A       | N.D.        | N.D.                   | Not Detected | 0.01 |
|           | <b>Conclusion</b> | <b>PASS</b> | <b>PASS</b>            | -            | -    |

## 9. Overall Migration for Silicone Materials in Contact with Foodstuffs EN 1186-1:2002 & EN 1186-3:2002

| Test specification | Material                |             | Limit (mg/dm <sup>2</sup> ) | RL (mg/dm <sup>2</sup> ) |
|--------------------|-------------------------|-------------|-----------------------------|--------------------------|
|                    | 3 <sup>rd</sup>         |             |                             |                          |
| 1                  | 10%Ethanol, 70 °C, 2h   | N.D.        | 10                          | 3                        |
| 2                  | 3%acetic acid ,70°C, 2h | N.D.        | 10                          | 3                        |
|                    | <b>Conclusion</b>       | <b>PASS</b> | -                           | -                        |

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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## 10. Bisphenol A (BPA) content In-house Method, determined by LC-MS

| Test Item         |             | Material    | Client's Limit (mg/kg) | RL (mg/kg) |
|-------------------|-------------|-------------|------------------------|------------|
|                   |             | 3           |                        |            |
| 1                 | Bisphenol A | N.D.        | Not Detected           | 0.01       |
| <b>Conclusion</b> |             | <b>PASS</b> | -                      | -          |

## 11. Overall Migration for Silicone Materials in Contact with Foodstuffs EN 1186-1:2002 & EN 1186-3:2002

| Test specification |                          | Material         | Limit (mg/dm <sup>2</sup> ) | RL (mg/dm <sup>2</sup> ) |
|--------------------|--------------------------|------------------|-----------------------------|--------------------------|
|                    |                          | 3 <sup>3rd</sup> |                             |                          |
| 1                  | 10%Ethanol, 70 °C, 2h    | N.D.             | 10                          | 3                        |
| 2                  | 3%acetic acid ,70 °C, 2h | N.D.             | 10                          | 3                        |
| <b>Conclusion</b>  |                          | <b>PASS</b>      | -                           | -                        |

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 12. Volatile Compounds Content for Silicone Materials in Contact with Foodstuffs Order 25/11/1992

Test condition: 200°C, 4h

| Compound          |                    | Material    | Limit (%) | RL (%) |
|-------------------|--------------------|-------------|-----------|--------|
|                   |                    | 3           |           |        |
| 1                 | Volatile Compounds | N.D.        | 0.5       | 0.1    |
| <b>Conclusion</b> |                    | <b>PASS</b> | -         | -      |

Remark(s): (a) RL: Report limit

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## 13. Peroxide Value for Silicone Materials in Contact with Foodstuffs French pharmacopoeia method

| Compound          |                | Material    | Requirement |
|-------------------|----------------|-------------|-------------|
|                   |                | 3           |             |
| 1                 | Peroxide Value | Negative    | Negative    |
| <b>Conclusion</b> |                | <b>PASS</b> | -           |

## 14. Organotin Content for Silicone Materials in Contact with Foodstuffs EN 13130-1:2004, determined by ICP-OES

Test condition: 3% acetic acid, 70 °C, 2h

| Compound          |                  | Material    | Limit (mg/kg) | RL (mg/kg) |
|-------------------|------------------|-------------|---------------|------------|
|                   |                  | 3           |               |            |
| 1                 | Organotin(as Sn) | N.D.        | 0.1           | 0.01       |
| <b>Conclusion</b> |                  | <b>PASS</b> | -             | -          |

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit

## Material List:

| Material # | Position / Sample Description | Material |
|------------|-------------------------------|----------|
| 1          | Transparent plastic, lid      | PS       |
| 2          | Black plastic, cup            | PP       |
| 3          | Transparent silicone, washer  | Silicone |
| 4          | Silvery metal, cup            | -        |
| 5          | Black foam with glue, cushion | -        |
| 6          | Article                       | -        |

Remark(s): The test material point is selected by client, the chemical test conclusions in the report only apply to the test material.

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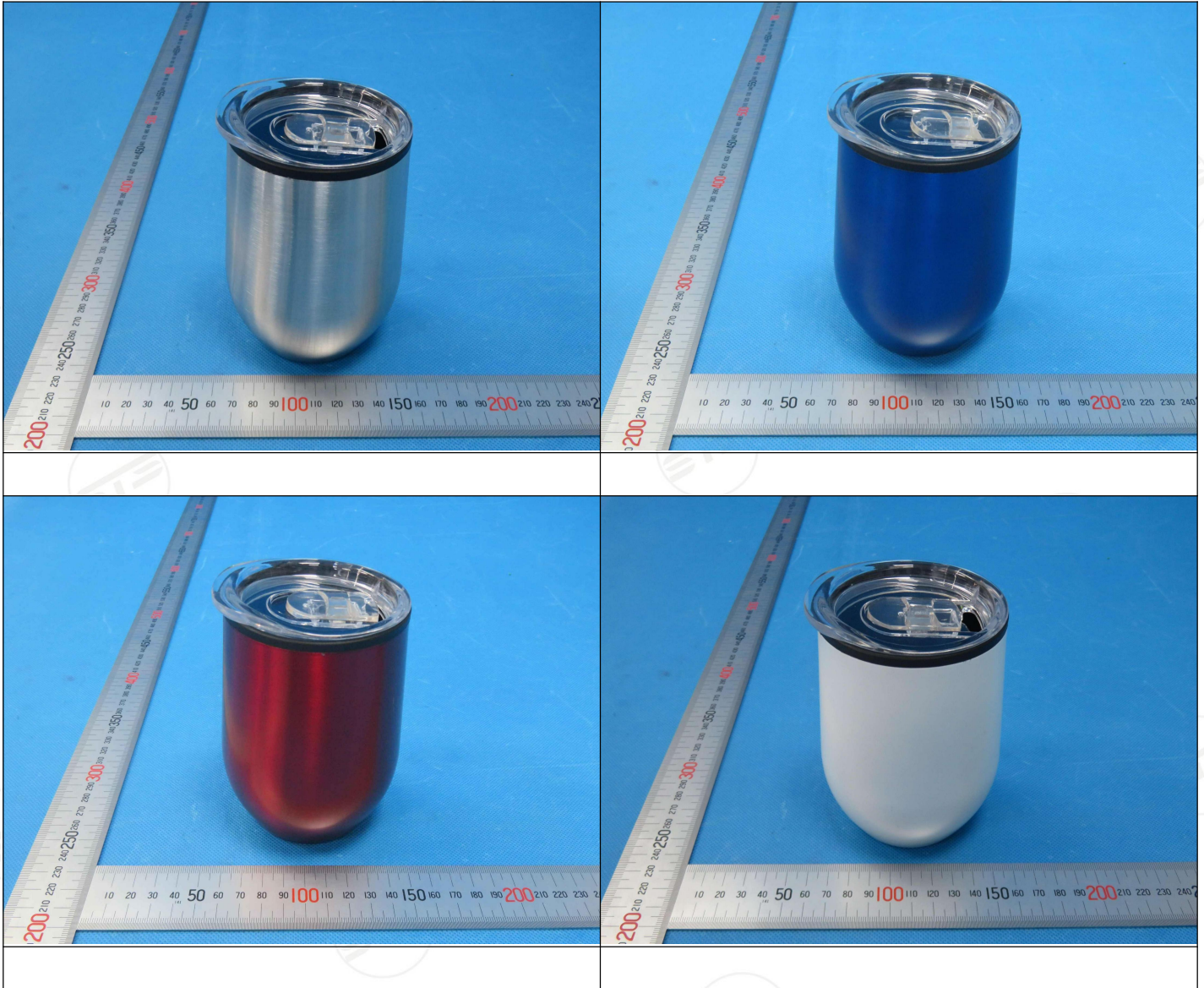
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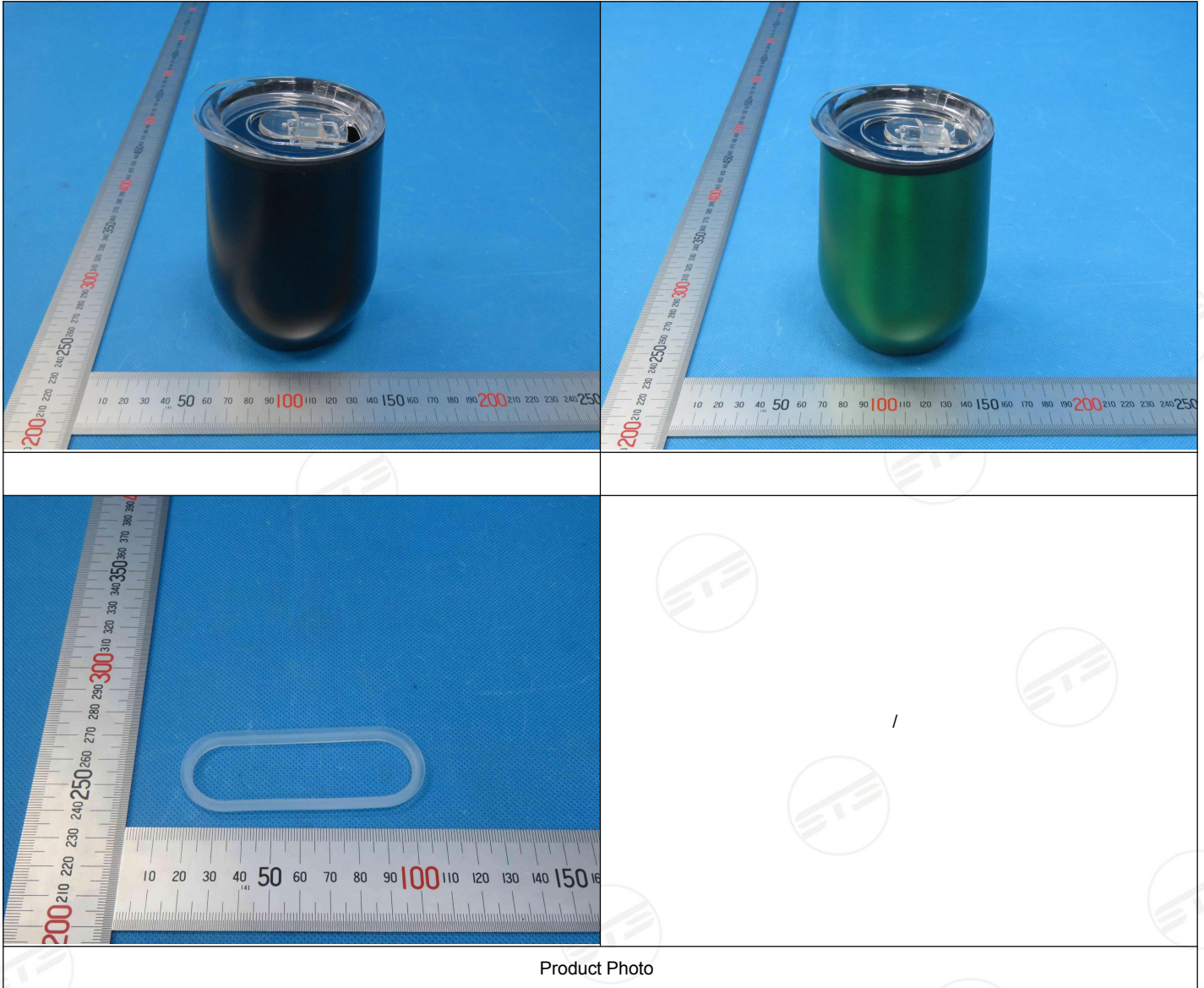


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Product Photo

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