



**Test Report**

Number: SZHH01142232

Applicant: SHENZHEN NEW DONG BO METAL PRODUCTS  
CO.,LIMITED  
NO.7, XINFENG ROAD, NIANFENG VILLAGE,  
PINGDI TOWN, LONGGANG DISTRICT,  
SHENZHEN CITY

Date: Apr 17, 2017

Attn: HU ZONGPING

**Sample Description:**

One (1) submitted sample said to be :

Item Name : **Spring.**  
Item No. : **SUS304.**  
P. O. No. : 20161010B01-01.  
Vendor : 新东宝.  
Date Sample Received : Apr 11, 2017.



\*\*\*\*\*  
To be continued

Authorized by:  
For Intertek Testing Services  
Shenzhen Ltd.

Ben N.L. Lin  
General Manager



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**Intertek Testing Services Shenzhen Ltd.- Hardlines**

深圳天祥质量技术服务有限公司-轻工产品事业部

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**Tests conducted:**

As requested by the applicant, refer to attached page(s) for details.

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**Conclusion:**

Regarding the tested parameters and based on the provided material information, the submitted sample complied with the food contacting requirements for §30 and §31 LFGB , Regulation (EU) 10/2011 and Regulation (EC) 1935/2004.

Based on the assessment of the submitted sample and the information provided, the following tests had been conducted :

**Tested parameters**

**Result**

1) Sensory test

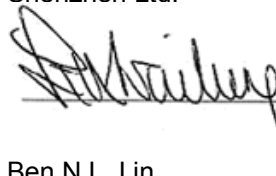
Pass

2) Determination of heavy metal release on metal

Pass

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Tests Conducted

1 Sensory Evaluation

With reference to §64 LFGB L00.90-6.

Sample was cleaned according to the product's instruction manual or in the absence of such manual with water. Food simulant was filled in the sample under below mentioned time and temperature. Odour and taste was evaluated with 6 panelists using control sample of food simulant.

I. Test condition:

Food simulant  
Water

Test temperature  
100°C

Test duration  
4hours

II. Result:

| <u>Test Item</u>       | <u>Result</u>        | <u>Limit</u>                         |
|------------------------|----------------------|--------------------------------------|
| Appearance of simulant | Clear and colourless | Clear and colourless                 |
| Odour of simulant      | 0                    | < 3.0 (No significant deterioration) |
| Taste of simulant      | 0                    | < 3.0 (No significant deterioration) |

Evaluation Scale: 0= no aberration, neutral  
1= very slight deterioration, barely perceivable  
2= slight deterioration  
3= significant deterioration  
4= strong deterioration

2 Release Testing on Metals and Alloys Used in Food Contact Materials and Articles

With reference to EU Technical Guide "Council of Europe Resolution CM/Res(2013)9 on metals and alloys Used in Food Contact Materials and Articles". Migration test was carried out and heavy metal content was determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Inductively Coupled Plasma Mass Spectrometer (ICP-MS) with reference to ISO 11885:2007 and ISO 17294-2:2003 respectively.

I. Test Condition:

Temperature: 100 °C

Time: 4hours

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## Tests Conducted

## II. Test Result:

Food simulant: Citric acid (5 g/L)

| Elements        | Result 1 <sup>st</sup><br>test<br>(mg/kg) | Result 2 <sup>nd</sup><br>test<br>(mg/kg) | Result 1 <sup>st</sup><br>test+Result<br>2 <sup>nd</sup> test<br>(mg/kg) | Result 3 <sup>rd</sup><br>test<br>(mg/kg) | Reporting<br>Limit<br>(mg/kg) | 7*Limit<br>(mg/kg) | Limit<br>(mg/kg) |
|-----------------|-------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------|-------------------------------|--------------------|------------------|
| Silver (Ag)     | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.05                          | 0.56               | 0.08             |
| Aluminium (Al)  | ND                                        | ND                                        | ND                                                                       | ND                                        | 1                             | 35                 | 5                |
| Chromium (Cr)   | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.02                          | 1.75               | 0.250            |
| Cobalt (Co)     | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.01                          | 0.14               | 0.02             |
| Copper (Cu)     | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.5                           | 28                 | 4                |
| Iron (Fe)       | ND                                        | ND                                        | ND                                                                       | ND                                        | 1                             | 280                | 40               |
| Manganese (Mn)  | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.1                           | 12.6               | 1.8              |
| Molybdenum (Mo) | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.02                          | 0.84               | 0.12             |
| Nickel (Ni)     | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.1                           | 0.91               | 0.14             |
| Tin (Sn)        | ND                                        | ND                                        | ND                                                                       | ND                                        | 10                            | 700                | 100              |
| Vanadium (V)    | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.005                         | 0.07               | 0.01             |
| Zinc (Zn)       | ND                                        | ND                                        | ND                                                                       | ND                                        | 1                             | 35                 | 5                |
| Antimony (Sb)   | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.01                          | 0.28               | 0.04             |
| Arsenic (As)    | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.001                         | 0.014              | 0.002            |
| Barium (Ba)     | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.1                           | 8.4                | 1.2              |
| Beryllium (Be)  | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.01                          | 0.07               | 0.01             |
| Cadmium (Cd)    | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.001                         | 0.035              | 0.005            |
| Lead (Pb)       | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.005                         | 0.070              | 0.010            |
| Lithium (Li)    | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.010                         | 0.336              | 0.048            |
| Mercury (Hg)    | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.003                         | 0.021              | 0.003            |
| Thallium (Tl)   | ND                                        | ND                                        | ND                                                                       | ND                                        | 0.0001                        | 0.0007             | 0.0001           |
| Magnesium (Mg)  | ND                                        | ND                                        | ND                                                                       | ND                                        | 1                             | -                  | -                |
| Titanium (Ti)   | ND                                        | ND                                        | ND                                                                       | ND                                        | 1                             | -                  | -                |

ND = Not detected

Remark : The submitted sample is a repeated use article. The migration test was carried out three times on the same article. The sum of the results of the first and second tests should not exceed seven times the limit (Result 1<sup>st</sup> test + Result 2<sup>nd</sup> test < 7 \* limit) and the Result 3<sup>rd</sup> test shouldn't exceed the limit.

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End of report

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