



**BUREAU  
VERITAS**

# TEST REPORT

LAB NO. : (6616)197-0452  
DATE : August 5, 2016  
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Applicant:

**SHANGHAI TRANLIN COMMODITY CO., LTD**

NO.3-5148, NO.1128 JINDU ROAD, MINHANG DISTRICT, SHANGHAI, CHINA

Date of Submission: July 15, 2016  
Date of on hold: July 21, 2016  
Date of off hold: August 5, 2016  
Test Period: July 15, 2016 to August 5, 2016

Sample Description: Sample(s) received is(are) stated to be Stainless steel vacuum lunchbox  
Test Item(s): Details see page 3

Manufacturer: / Style No(s): T-2004B  
Buyer: / PO No.: /  
Country of Origin: China Country of Destination: /

## SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Olefin Polymers - Polypropylene Homopolymer - U.S. FDA 21 CFR 177.1520	PASS
Closures with Sealing Gaskets for Food Containers - U.S. FDA 21 CFR 177.1210	PASS
FDA / GRAS Evaluation	PASS

- Note: 1) The tested part of the sample was specified by client.  
2) The test requested was specified by client.  
3) The test conclusion was given based on the results of tested part.

### REMARK

If there are questions or concerns on this report, please contact the following persons:

General enquiry and invoicing

Mr. Johnny Yin/ Ms. Joanna Chen  
(021) 24166888\*6833/6849

Technical enquiry

Jonny.Yin@cn.bureauveritas.com/ Joan.chen@cn.bureauveritas.com  
Mr. Paul Li/ Ms. Kathy Fu  
(021) 24166888\*6857/6841  
Paul.Li@cn.bureauveritas.com/Kathy.Fu@cn.bureauveritas.com

**BUREAU VERITAS**  
**CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)**

PREPARED BY :

Candy

Paul Li  
Technical Specialist

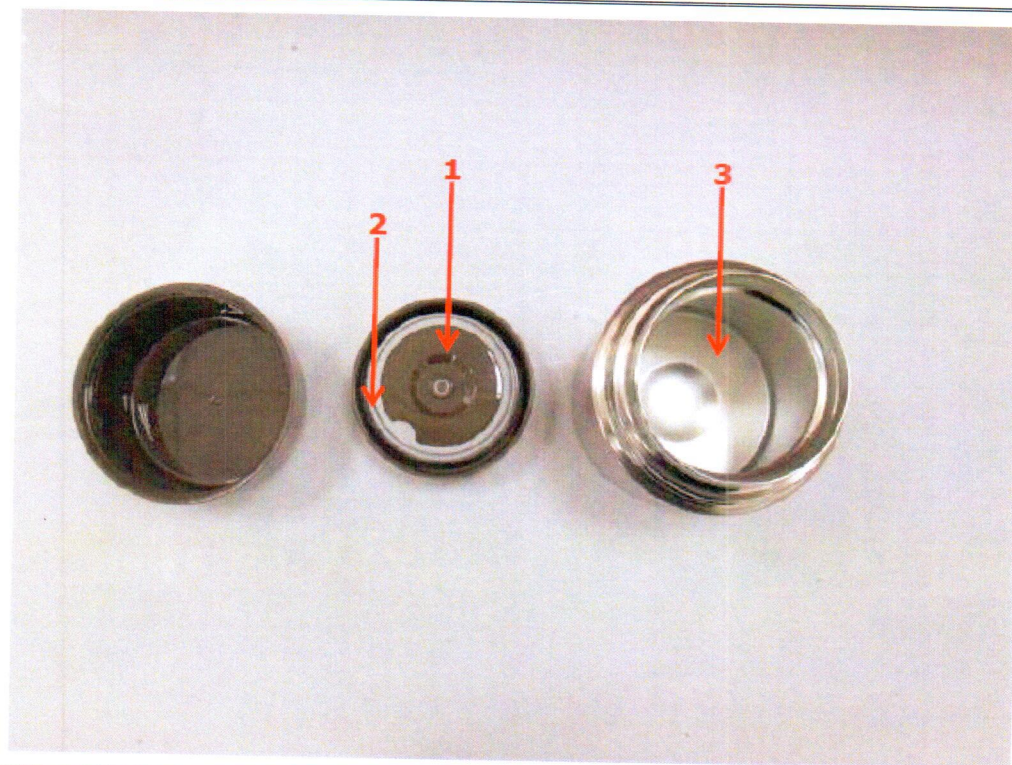
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### Photo of the Submitted Sample





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**TEST RESULT**

**Sample Description Assigned by Laboratory:**

Test Item	Description	Client Claimed Material
1	Brown plastic lid	PP
2	Grey soft plastic sealing	Silicone
3	Silvery metal lunch box inner	Stainless steel

**I. Olefin Polymers - Polypropylene Homopolymer - U.S. FDA 21 CFR 177.1520**

Parameter	Unit	Result	Limit
		1	
Density	g/cm <sup>3</sup>	0.885	0.880-0.913
Melting Point	°C	163.0	160-180
Total Extractives (n-Hexane)	% w/w	1.2	≤ 6.4
Total Extractives (Xylene)	% w/w	1.1	≤ 9.8
<b>Conclusion</b>	-	PASS	-

Note: g/cm<sup>3</sup> = gram per cubic centimetre  
% w/w = percent weight by weight  
“<” = less than  
“≤” = less than or equal to

Method: U.S. FDA 21 CFR 177.1520



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**TEST RESULT**

**II. Closures with Sealing Gaskets for Food Containers - U.S. FDA 21 CFR 177.1210**

Condition of use: C) Hot filled or pasteurized above 150°F  
Extracting condition: Distilled Water (Fill boiling, cool to 100 °F)  
n-Heptane (120 °F, 15 min.)

Parameter	Unit	Result	Limit
		2	
Net Chloroform- Soluble Extractives			
(i) Distilled Water	ppm	<10	≤ 50
(ii) n-Heptane	ppm	101	≤ 250
<b>Conclusion</b>	-	PASS	-

Note: ppm = parts per million  
“<” = less than  
“≤” = less than or equal to

Method: U.S. FDA 21 CFR 177.1210

Remark: Maximum extractives tolerances of different types of closure-sealing gasket composition

Type of closure-sealing gasket composition	Maximum Extractives Tolerances (in ppm)		
	Chloroform fraction of water extractives	Chloroform fraction of heptane extractives	Chloroform fraction of alcohol extractives
1. Plasticized polymers, including unvulcanized or vulcanized or otherwise cured natural and synthetic rubber formed in place as overall discs or annular rings from a hot melt, solution, plastisol, organisol, mechanical dispersion, or latex	50	500	50
2. Performed overall discs or annular rings of plasticized polymers, including unvulcanized natural or synthetic rubber	50	250	50
3. Performed overall discs or annular rings of vulcanized plasticized polymers, including natural or synthetic rubber	50	50	50
4. Performed overall discs or annular rings of polymeric or resinous-coated paper, paperboard, plastic, or metal foil substrates	50	250	50
5. Closures with sealing gaskets or sealing compositions as described in 1, 2, 3 and 4, and including paper, paperboard, and glassine used for dry foods only	Not applicable	Not applicable	Not applicable



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### TEST RESULT

#### III. FDA / GRAS Evaluation

Test Item : 3

Result: The sample 3 meets the chemical requirements of AISI 304 stainless steel. AISI 304 is given as a reference.

Conclusion: The sample Meet FDA/GRAS for the intended use.

Method: ASTM E1086-14

Arc Spectrometer Data Sheet		
AISI 304		
ELEMENTS	SPECIFICATION (%)	RESULT(%)
		3
C	0.08 max	0.046
Si	1 max	0.54
Mn	2 max	1.20
P	0.045 max	0.033
S	0.03 max	0.0054
Cr	18-20	18.34
Ni	8-10.5	8.13
Mo	--	0.072
Cu	--	0.056

END



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Annex

**Remark: The client declares that the above tested material will be used in below styles.**

Description

T-2005