



**BUREAU
VERITAS**

TEST REPORT

LAB NO. : (6615)341-2075
DATE : December 22, 2015
PAGE : 1 OF 6

Applicant:
SHANGHAI TRANLIN COMMODITY CO., LTD
NO.3-5148, NO.1128 JINDU ROAD, MINHANG DISTRICT, SHANGHAI, CHINA

Date of Submission: December 7, 2015
Date of on hold: December 14, 2015
Date of off hold: December 22, 2015
Test Period: December 7, 2015 to December 22, 2015

Sample Description: Sample(s) received is(are) stated to be Stainless steel vacuum sports bottle, stainless steel, blue
Test Item(s): Details see page 4

Manufacturer: / Style No(s): T-1174
Buyer: / PO No.: /
Country of Origin: shanghai Country of Destination: /

SUMMARY OF TEST RESULTS

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

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

PREPARED BY : Candy

Gorden Yu
Analytical Lab Manager

RW/2015

Photo of the Submitted Sample

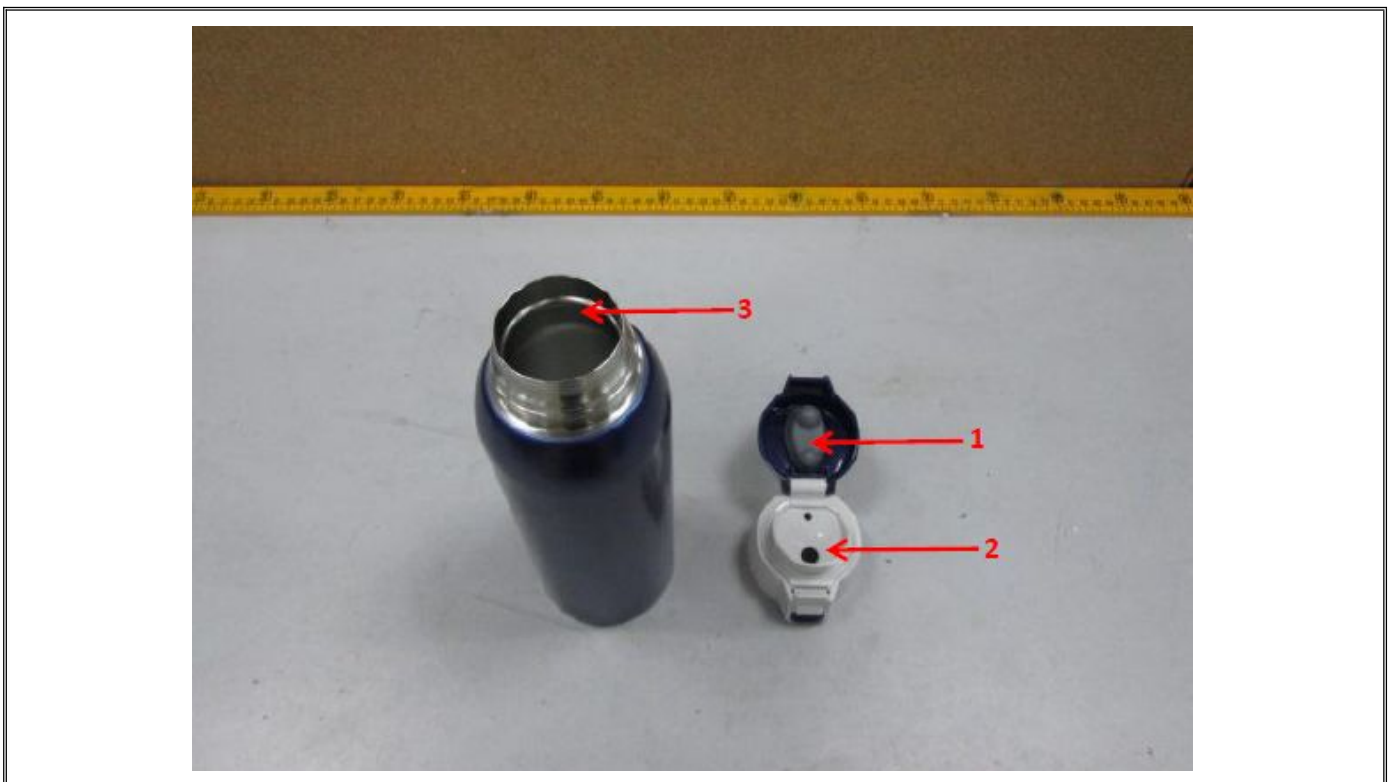


Photo of the Submitted Sample





TEST RESULT

Sample Description Assigned by Laboratory:

Test Item	Description	Client Claimed Material
1	Grey silicone sealing	Silicone
2	White plastic	PP
3	Silvery metal	Stainless steel 304

I. 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.)

Condition of use: D) Hot filled or pasteurized below 150°F
 Extracting condition: 8% Alcohol (150 °F, 2 hr.)

Parameter	Unit	Result	Limit
		1	
Net Chloroform- Soluble Extractives			
(i) Distilled Water	ppm	<10	≤ 50
(ii) n-Heptane	ppm	<10	≤ 250
(iii) 8% Alcohol	ppm	<10	≤ 50
Conclusion	-	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



TEST RESULT

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

Parameter	Unit	Result	Limit
		2	
Density	g/cm ³	0.905	0.880-0.913
Melting Point	°C	164.1	160-180
Total Extractives (n-Hexane)	% w/w	1.3	≤ 6.4
Total Extractives (Xylene)	% w/w	1.6	≤ 9.8
Conclusion	-	PASS	-

Note: g/cm³ = 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

III. FDA / GRAS Evaluation

Test Item3: Silvery metal bottle body

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

Method: ASTM E1086-14

Arc Spectrometer Data Sheet		
AISI 304		
ELEMENT	SPECIFICATION	RESULT(%)
S	(%)	3
C	0.08 max	0.047
Si	1 max	0.445
Mn	2 max	1.13
P	0.045 max	0.029
S	0.03 max	0.0073
Cr	18-20	18.22
Ni	8-10.5	8.39
Mo	--	0.065
Cu	--	0.136

END

Annex

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



T-1161



T-1164



T-1171