Rạng Đông

Since 1961

PROFILE OF VACUUM FLASK

CONTENT

1. INTRODUCTION

Hanoi factory: 57,000m2

Bac Ninh factory: 82,000m2

- Established: 1961
- 2004: Equalization, listing in Stock Exchange
- Revenue 2019: 185 Million USD
- 2180 employees
- 12000 Nationwide retailers

Production Capacity:

Vacuum Flask: Over 8 Million pcs / Year

Glass Refill: Over 23 Million pcs / Year

MISSION, VISION, CORE VALUES

MISSION

We supply eco-friendly, safe vacuum flask products and services for protecting human health and happiness; to improve the quality of life and add value for shareholders, employees and customers. Dedicated to serve our customers.

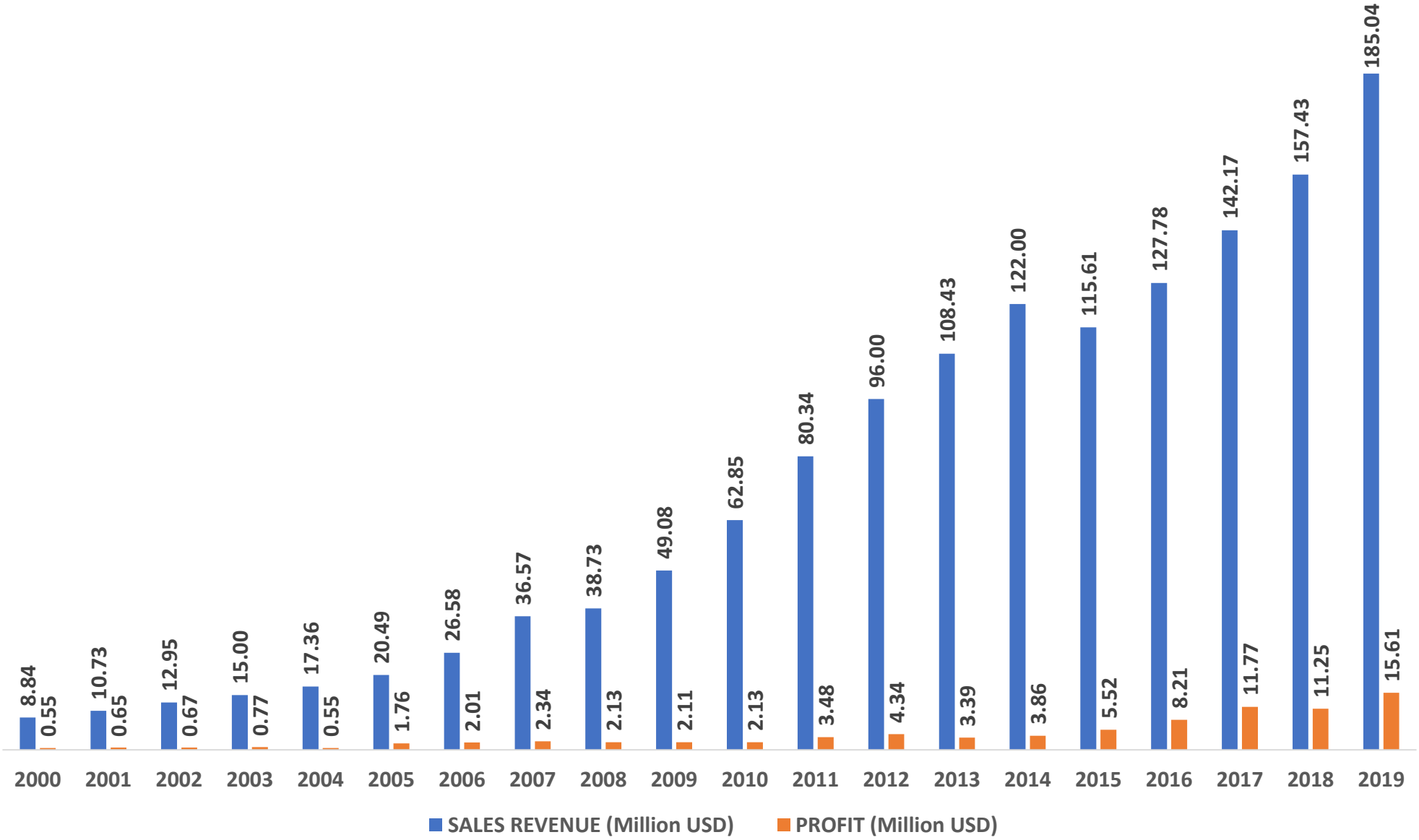
VISION

To become world leading enterprise; pioneer in the field of supplying vacuum products and services to meet the requirements of domestic and foreign customers by 2030.

CORE VALUES

Unity
Discipline
Professionalism
Continuous innovation and improvement
Honesty

2. BUSINESS PERFORMANCE



AWARDS & MEDIA RECOGNITION

Vietnam Vacuum Flask Market Leader

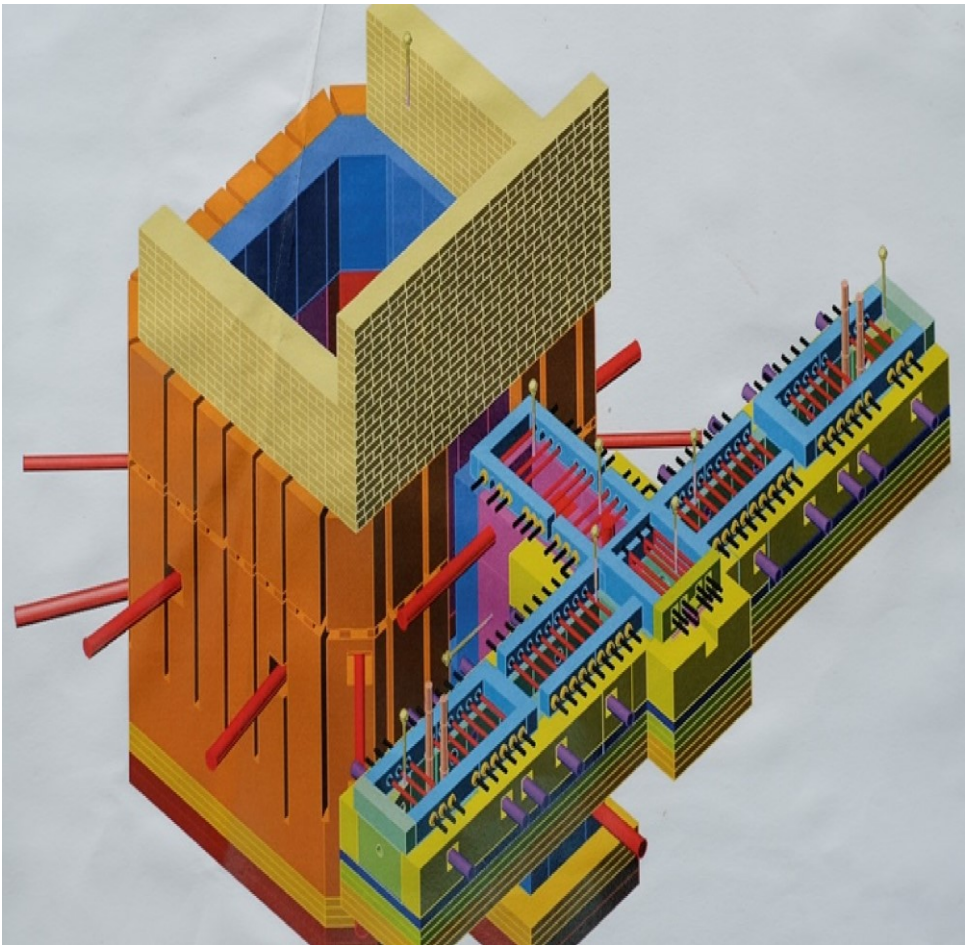
- TOP 500 Largest Companies in Vietnam (for 8 consecutive years)
- TOP 500 Largest Private Enterprises in Vietnam (for 8 consecutive years)
- TOP 500 Most Profitable Companies in Vietnam (for 3 consecutive years)
- TOP 500 Most Profitable Private enterprises in Vietnam (for 3 consecutive years)
- TOP 10 Famous Trademark Winners in Vietnam
- TOP 10 Best brand name in Vietnam
- TOP 10 Gold classified products
- TOP 50 Leading Brands in Vietnam

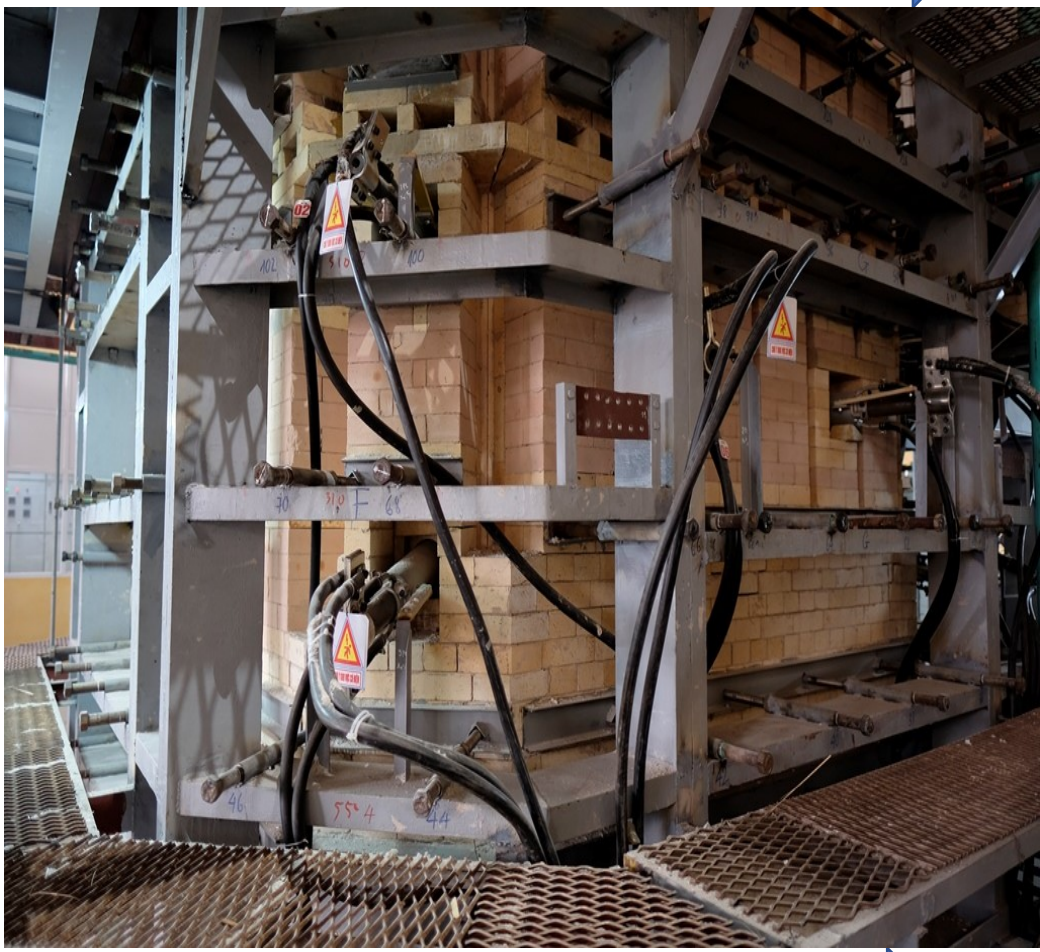
3. PRODUCTION LINES

Furnace
Over 38 tons/day

Glass Refill
Over 70.000pcs / day

Vacuum Flask
25.000 pcs/day





Stage 1: Glass Furnace

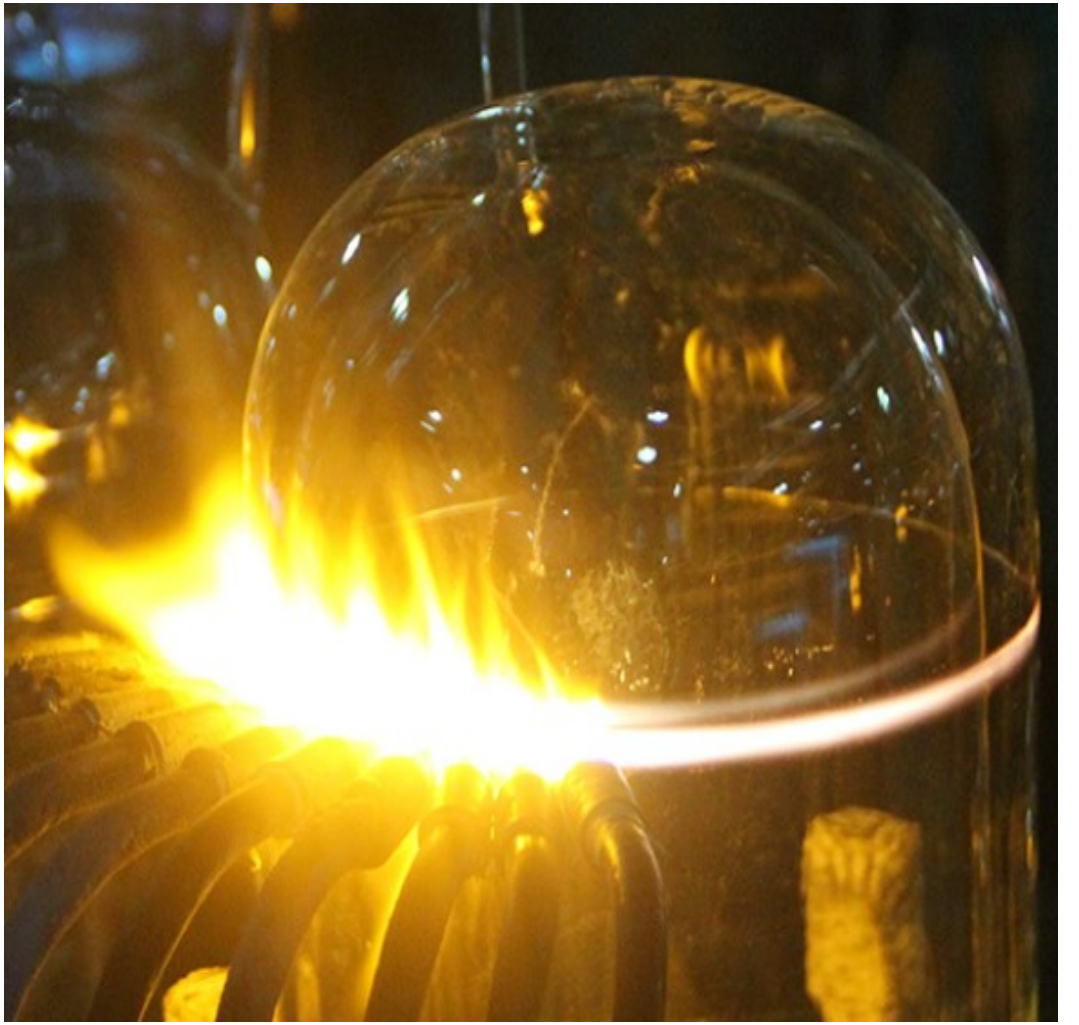
3. PRODUCTION LINES

Stage 2: Production of Glass Refill

3. PRODUCTION LINES

Stage 3: Production of Vacuum Flask

3.1. Glass Refill: Over 23 million pcs/year



1 Auto-Line of 2L type with Bottom sealing technology

Capacity: over 7 million pcs/year

2 Lines of Waist Sealing Technology:

Customization of shape, dimension, capacity

Capacity: over 16 million pcs/year

3.2. Plastic Injection

-Number of Machine: 67

-Machine Capacity: From 100 to 650 tons

-Modern Equipment; Various Production

3.3. Rollers

- Modern equipment, stable quality, high productivity.
- Capacity: 3 million pcs/year

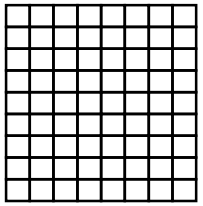
3.4. Assembly Lines

- 4 Assembly Lines
- Assembly capacity: over 8 million pcs/year

4. Quality Management System

Quality Function Deployment

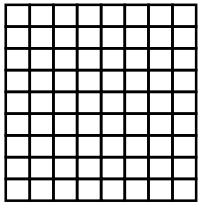
Customer requirements



Phase 1
Product Planning

Design requirements

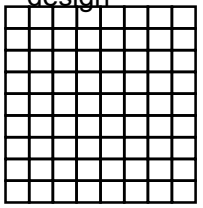
Design requirements



Phase 2
Product Design

Parts design

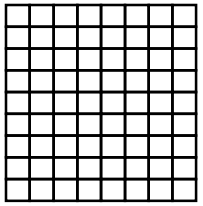
Parts design



Phase 3
Product Planning

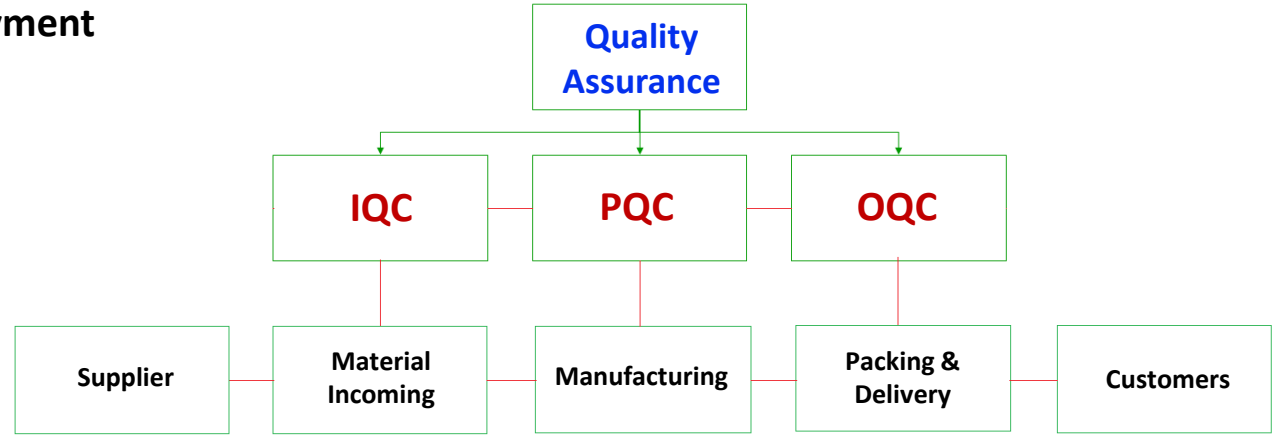
Manufacturing process

Manufacturing process

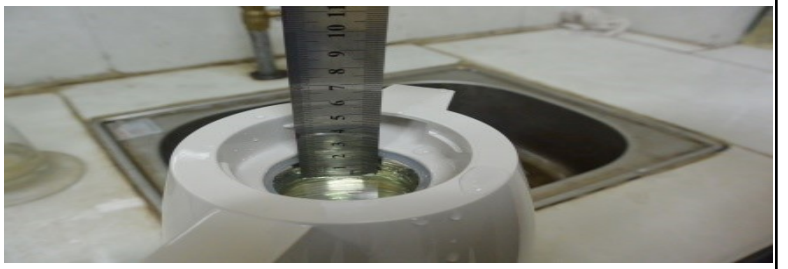


Phase 4
Product Control

Build quantity



	Standard	Method	
Dimension	The full size of the final product must be complied with the approved design specification.	Using the calliper, the meter measures the sizes	 

	Standard	Method	BS EN 12546-1:2000
Capacity	Actual measured capacity of the bulb should not exceed 6% of the nominal capacity value.	Pour water into the flask 2 cm away from the mouth and measure the amount of water in the flask with a suitable measuring cup.	  

	Standard	Method	BS EN 12546-1:2000
Pouring	No water streaks appear on the white paper	1. Prepare a glass cup with mouth diameter of 6-8 cm and place on a white paper. 2. Pour the water into the glass cup at a height of 5cm	 

A cup with a mouth opening of between 6 cm and 8 cm diameter is placed above a sheet of white paper of 200 mm x 200 mm. When black tea or coffee is poured out of an insulated container from a height of 5 cm, measured from the pouring edge to the rim at the approximate centre of the cup, no stains caused by spluttering shall appear on the paper.

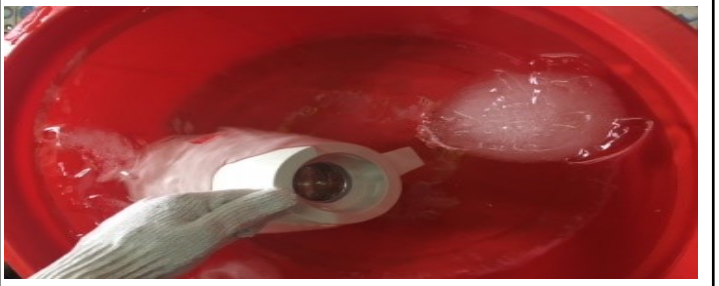
	Standard	Method	BS EN 12546-1:2000
Stability	The thermos must be balanced	Place the thermos on any 10 ° surface and with any water level from no water until the water inside reaching the nominal water level.	 

The insulated container shall not overbalance when placed on its base on a plane inclined at 10° to the horizontal in any orientation and at any level of filling from empty up to, and including, its nominal capacity.

	Standard	Method	BS EN 12546-1:2000
Heat Loss (Heat Retention)		1. Filling the nominal capacity of the thermos by Hot water (>95 °C) and leave it for 5 minutes. 2. Empty the thermos then quickly fill the nominal capacity with Hot water >95 °C. 3. Close the cover and leave the thermos for 6 hours at ambient temperature (20 ± 2) °C. 4. After 6 hours, remove the cover and dip the thermometer in the thermos to measure the water temperature.	  

Capacity (in ml)	flasks	carafes
0 to 200	60	
201 to 400	65	60
401 to 600	70	65
601 to 800	75	70
801 to 1200	78	75
>1200	80	78

Pre-heat the container for (5 ± 1) min by filling it to its nominal capacity with hot water at ≥ 95 °C. Then empty the container and immediately fill it to its nominal capacity with water at ≥ 95 °C. Apply the stopper. After leaving the container for 6 h ± 5 min at a temperature of (20 ± 2) °C, check the temperature of the water.

	Standard	Method	BS EN 12546-1:2000
Thermal shock	not broken	1. Fill the nominal capacity of the thermos with (15 ± 1) °C water. 2. Leave it for 5 minutes, then fill it again with (95 ± 2) °C water and wait for 5 minutes. 3. Empty the thermos and check if the glass refill has crack.	   

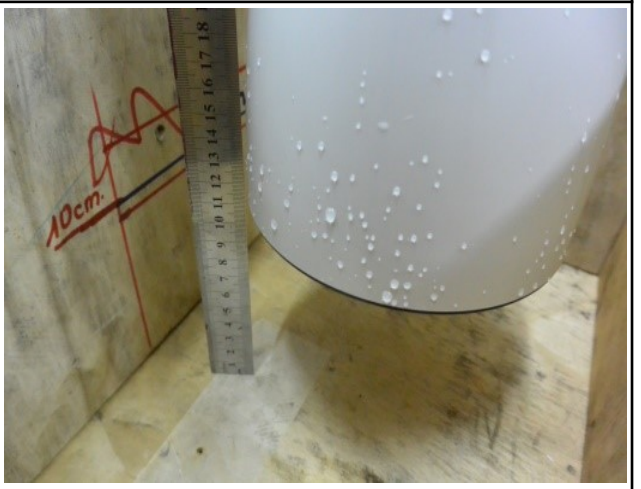
Fill the insulated container to its nominal capacity with water at (15 ± 1) °C. Leave for 5 min, empty, and re-fill to its nominal capacity with water at (95 ± 2) °C for 5 min. Empty, and check if the filler is still intact.

	Standard	Method	BS EN 12546-1:2000
Stopper Leakage	Not leakage	Fill the thermos about 75% of the nominal capacity. Tighten the knob then wipe the outside the thermos, put it upside down for 10 minutes.	 

Fill the container to 75 % of its nominal capacity with boiling water containing 0,5 % of a surfactant. Close stopper with a torque of 2 Nm or, if not fitted with a screwed stopper, push in the stopper to its furthest extent. Thoroughly dry the outside of the stopper, spout and outer protective casing. Put the container in an upside-down position for at least 10 minutes. No drops shall appear on the stopper, spout or casing.

	Standard	Method	BS EN 12546-1:2000
Seal leakage	Not leakage	1. Checking assembled Vacuum flask by hand 2. Fill water into Vacuum Flask up to the pouring edge 3. Checking after 2hours whether the water level has dropped	 

Fill the container with water at ambient temperature up to the pouring edge and check after 2 h whether the water level has dropped.

	Standard	Method	BS EN 12546-1:2000
External Impact	Not broken	1. Fill water into vacuum flask to its full capacity 2. Drop down vertically from a height of 10 cm onto a horizontal hard wood panel with its minimum thickness of 3 cm.	 

At room temperature, fill the insulated container with water to its full capacity, and allow it to drop in an upright position from a height of 10 cm, onto a horizontal hard-wood board of not less than 3 cm thickness. Perform the drop test in such a manner so as to achieve a single impact and prevent toppling.

4.2. Certifications

SGS

Test Report No. VNHL1811016567HG Date: December 05, 2018 Page 1 of 3

RANG DONG LIGHT SOURCE AND VACUUM FLASK JOINT STOCK COMPANY (RALACO)
87-89 HA DINH STREET, THANH XUAN DISTRICT, HANOI CITY, VIETNAM

The following sample was submitted and identified on behalf of the client as below:

SGS Job No.	:	VNHL1811016567HG
Sample Description	:	GLASS REFILL
Color	:	SILVER
Characteristic	:	GLASS
Date of Production	:	08/09/2018
Manufacturer	:	RANG DONG LIGHT SOURCE AND VACUUM FLASK JOINT STOCK COMPANY (RALACO)
Country of Origin	:	VIETNAM
Country of Destination	:	EU
Sample Receiving Date	:	OCTOBER 30, 2018
Final confirmed Date	:	OCTOBER 30, 2018
Testing Period	:	OCTOBER 30, 2018 TO NOVEMBER 27, 2018
Test Requested	:	PLEASE REFER TO THE RESULT SUMMARY.
Test Results	:	PLEASE REFER TO NEXT PAGE(S).
Result Summary	:	

Test Requested	Conclusion
Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and DIN 51032:2017 – Leachable Lead and Cadmium	PASS

Signed for and on behalf of
SGS Vietnam LTD

Thay mặt công ty SGS Vietnam Ltd

Wong Cho Wing
Hardline and E&E Lab Manager

LFGB PASS

SGS

ilac-MRA BUREAU OF ACCREDITATION VIETNAM VILAS 237

Test Report No. VNHL1609003446EE Date: September 14, 2016 Page 1 of 10

RANGDONG LIGHT SOURCE AND VACUUM FLASK JOINT STOCK COMPANY
87-89, HA DINH STR., THANH XUAN DIST, HA NOI,
VIET NAM

The following sample(s) was/were submitted and identified by/on behalf of the client as:

SGS Job No.	:	VNHL1609003446EE
Sample Description	:	GLASS REFILL (RUOT PHICH BANG THUY TINH)
Style / Item No.	:	/
PO / Ref. No	:	/
Color	:	/
Buyer	:	/
Supplier	:	/
Manufacturer	:	/
Country of Origin	:	VIETNAM
Country of Destination	:	/
Sample Receiving Date	:	September 08, 2016
Final confirmed Date	:	September 08, 2016
Testing Period	:	September 08, 2016 to September 14, 2016
Test Requested	:	As request from client, SVHC screening is performed according to: One hundred and sixty nine (169) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before June 20, 2016 regarding Regulation (EC) No 1907/2006 concerning the REACH.
Test Results	:	Please refer to next page(s).
Result Summary	:	

According to the specified scope and analytical techniques, concentrations of tested SVHC are ≤ 0.1% (w/w) in the submitted sample.	PASS

SVHC PASS

5. OUTSTANDING PRODUCTS

1. Use 100% safety materials, glass refills are passed SVHC test by SGS. All vacuum flasks are certified food safety (CR) by Quatest

2.Silver-coated glass refills are produced according to Japanese original technology.

3. Good quality, heat retention complied with British Standard BS EN 12546-1:2000

4. Stylish, luxurious, strong design that satisfies the needs of customers in Japan, Singapore, China, Asia, Middle East, South America and EU

5.1. Air Pot

AIR POT 1L
RD-1045 ST1.E

AIR POT 2L
RD-2045 TS.E

AIR POT 2L
RD-2045 ST1.E

AIR POT 2.5L
RD-2545 ST1.E

AIR POT 2.0L
RD-2045 ST1.E (QT)

5.2. Tea Pot

TEA POT 1L
RD-1055 N1.E

TEA POT 1L
RD-1055 ST1.E

TEA POT 1L
RD-1055 TS

TEA POT 1L
RD-1042 N2

5.3. Hand Held

HAND HELD 0.5L
RD-05P1

HAND HELD 0.45L
RD-04528 N1

Hand Held 0.45L
RD-04528 N2

HAND HELD 0.5L
RD-0538 N2

HAND HELD 0.5L
RD-0538 N1

HAND HELD 0.7L
RD-07P1

5.4. Coffee Pot

COFFEE POT 0.9L

RD-0940 N1.E

COFFEE POT 1L

RD-1040 ST2

COFFEE POT 1.5L

RD-1542 N2.E

COFFEE POT 1L

RD-1040 N1.E

COFFEE POT 1L

RD-1040 ST3.E

COFFEE POT 1L

RD-1038 N2

COFFEE POT 1.2L

RD-1235 N1

COFFEE POT 1L

RD-1040 TS

COFFEE POT 1L

RD-1045 TS.E

COFFEE POT 1L

RD-1045 N1.E

COFFEE POT 1.5L

RD-1565 N1.E

COFFEE POT 1.3L

RD-1340 ST2

COFFEE POT 1L

RD-1040 ST2.E (QT)

COFFEE POT 1.6L

RD-1640 ST2

COFFEE POT 1L

RD-1040 ST2.E

5.5. Others

FOOD JAR 1.1L
RD 1100 N1.T

VACUUM FLASK 2L
RD-2035 N5

VACUUM FLASK 1L
RD-1038 N1

VACUUM FLASK 2L
RD-2035 N6

VACUUM FLASK 2L
RD-2035 N1.E

VACUUM FLASK 2L
RD-2035 N10.E

VACUUM FLASK 2L
RD-2035 N3

VACUUM FLASK 2L
RD-2035S1/S2

VACUUM FLASK 3.2L
RD-3245 N1.E

VACUUM FLASK 3.2L
RD-3245 N2

VACUUM FLASK 2L
RD-697

VACUUM FLASK 2L
RD-2035 ST1.E

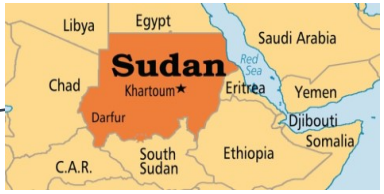
FOOD JAR 0.85L
RD-0850 N1.T

VACUUM FLASK 2L
RD-2035 ST2

5.6. Glass Refill

- All size: 0.27L – 3.5L
- With pads or without pads
- Bottom Sealing or Waist Sealing method

6. EXPORT NETWORK



22 IMPORT COUNTRIES OF VACUUM FLASK

Rang Đông

KEY PARTNERS

Rạng Đông

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Email : export@rangdong.com.vn