

Applicant: VIETTIEP CRYSTAL CO.,LTD
BAC SON SUB - QUARTER , TIEN HAI TOWN, TIEN HAI DISTRICT, THAI BINH
PROVINCE, VIET NAM

The following samples were submitted and identified on behalf of the client as:

Sample Description : Glassware item code VTC 412
Date sample received : June 10, 2025
Testing period : June 10, 2025 to June 14, 2025

Conclusion

<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	Thermal shock - EN 1183: 1997	See details enclosed

AUTHORIZED BY
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LIEM MAI
HARDLINES GENERAL MANAGER

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Test conducted

Thermal shock test:

Reference to EN 1183: 1997 – Materials and articles in contact with foodstuffs – Test methods for thermal shock and thermal shock endurance.

Test procedure :

- 1) Test method A as specified in the standard was adopted for the test.
- 2) The sample was immersed in the hot water bath set (at 60°C) for 30 minutes.
- 3) It was then transferred to cold water at 20°C and immersed for a period of approximately 1 minute.
- 4) The above steps were repeated except that the temperature of the hot water bath was increased by:
- 10°C for temperature difference ≤ 100°C
- 5) The test was completed when failure occurred on all tested specimens.
- 6) The cumulative failure in % and the standard deviation were determined.
Number of samples tested: Ten (10) pieces. `

Result:

Temperature in hot water bath, t ₁ (°C)	Temperature difference, t ₁ -t ₂ (°C)	Number of failures	Cumulative failure in %
60	40	0	0
70	50	0	0
80	60	0	0
90	70	0	0
100	90	0	0

The temperature Difference $\Delta(T_{50})$ at which 50% of the tested samples Failed and ITS standard deviation

Δt_{50} (°C)	Standard deviation (°C)
> 90°C	

The sample was not damaged at 100°C.

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Photos Of Submitted Samples



END OF THE TEST REPORT

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