

KASON-TECT500 Linear Thermal Expansion Coefficient Tester



Note: The picture is for reference only

Product Application:

This product is specifically designed for determining the average linear thermal expansion coefficient of various pharmaceutical glass bottles, analyzing the expansion and contraction properties of glass and other materials under high temperatures. It fully complies with the 2025 edition of the Pharmacopoeia 4021, Method for Determination of Linear Thermal Expansion Coefficient of Glass, and the 2015 edition of the National Standard for Pharmaceutical Packaging Materials, Method for Average Linear Thermal Expansion (YBB00202003-2015), meeting the requirements of relevant international and domestic standards and regulations.

Test Standard:

YBB00202003-2015 Method for Determination of Average Linear Thermal Expansion Coefficient; 2025 Edition Pharmacopoeia 4021 Method for Determination of Glass Linear Thermal Expansion Coefficient; GB/T 16920-2015 Determination of Average Linear Thermal Expansion Coefficient of Glass;

Product Features:

- Available in vertical and single/double pusher configurations for convenient sample loading;
- Industrial-grade color touchscreen with microcomputer control, offering clear views, sensitive touch, and ease of operation;
- Intelligent control of the testing process, enabling detection and control of displacement and temperature throughout the entire test;
- Programmed temperature control with freely adjustable heating rates and high temperature precision;
- Strong compatibility with samples, capable of determining the coefficient of thermal expansion of

glass rods, tubes, plates, and finished products;

- Software processing automatically calculates the coefficient of linear expansion and obtains the expansion rate curve;
- The testing system displays and records the temperature-coefficient of thermal expansion curve, all raw data, and calculates the coefficient of linear expansion;
- Supports recording, storing, and viewing test data, and includes a micro printer for direct output and printing of test results;
- Multi-level user access control with password login facilitates user management.

Technical Parameters:

Specifications	Parameters
Furnace temperature range	Ambient temperature ~ 500℃
Heating rate	Settable temperature range of 0.1~10℃/min, programmable
Temperature control accuracy	≤1℃
Temperature recording error	≤±0.5%
Displacement measurement	±2.5mm
Measurement expansion	0.1um, imported displacement sensor, automatic range calibration
Sample size	≤Φ80mm×H (35~110) mm (custom sizes available upon request)
Test accuracy	Better than ±0.5%
External dimensions	1100mm (L) x460mm (B) x460mm (H)
Power supply	AC 220 V 50 Hz
Net weight	Approx. 60kg

Product Configuration:

Test host (with touch screen system), professional software, mini printer, quartz holder, quartz standard sample

FOCUS IN MATERIAL TEST

KASONTTEST®

JINAN KASON TESTING
EQUIPMENT Co, LTD.

DuandianIndustrial Park , Jingshi Road, Jinan City,China.

P: +86 159 1008 1986

E: admin@jnkason.com | **W:** www.syjlab.com

