

HST-TECT500 Linear Thermal Expansion Coefficient Tester



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.

TestStandard:

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;

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 range	±2.5mm
Measurement expansion resolution	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

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