



ACS Material Equipment Series

ThermalSure[®] Melt Physical Property Comprehensive Tester

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I. Product Composition

1. Main Machine



Melt Physical Property Comprehensive Tester

II. Product Features

The tester is primarily used for high-temperature liquid sample density, surface tension, conductivity, and initial crystallization temperature measurement. It is suitable for molten salts, melts, and other high-temperature nature of the stability of the material of the thermal physical properties of the parameter measurement. The tester consists of a heating module, lifting module, electrical control module, water and gas module, measurement module, and a computer.

Product Advantages:

1. The measurement hardware and software were independently developed based on the unique characteristics of high-temperature melts.
2. Modular structure design, ensuring easy to use, operate, and maintenance.
3. The measurement software, based on an industrial control system, is independently designed and developed, featuring a user-friendly interface and easy operation.
4. The test data is automatically recorded, enhancing safety and reliability

III. Product Specifications

Product Name	ThermalSure® Melt Physical Property Comprehensive Tester
Model	ETTMT001
Temperature Range	Room temperature ~1600°C
Heating Rate	0.1~10°C/min
Temperature Control Accuracy	±1°C
Testing Environment	Compatible with Protective Gas
Density Test Accuracy	1% (Weigh module resolution: 0.1mg, capacity: 120g)
Conductivity Test Accuracy	±5% (Test mode: Cp- Rp, frequency: 100kHz)
Surface Tension Test Accuracy	±5% (Weigh module resolution: 0.1mg, capacity: 120g)
Initial Crystallization Temperature Measurement Accuracy	±1°C
Power Supply	220V (50Hz/60Hz)
Rated Power	5kW
Overall Dimensions	500 x 820 x 1800mm
Configuration Description	Includes 1 main machine, a heating module, a lifting module, an electrical control module, a chiller, a control computer, a control software, a measurement module.

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