



ACS Material Equipment Series

ThermalSure[®] Metallic Viscometer

- 1 – Product Composition
- 2 – Product Features
- 3 – Product Specifications

Contact Information:

ACS Material, LLC
Address: 959 E Walnut St., Suite 100
Pasadena, CA 91106, USA
Phone: (866) 227-0656
Fax: (781) 518-0284
E-Mail: contact@acsmaterial.com
Revision: 103124

I. Product Introduction:

1. Main Machine



Photo of LLV 1200



Photo of LLV 2000

II. Product Features

The metallic viscometer primarily uses the torsion pendulum method, a non-contact, high-resolution measurement technique that is well-suited for high-density, low-viscosity alloys and metals. The machine includes a heating module, lifting module, suspension module, measurement module, electrical control module, water-gas module, and a computer.

Product Advantages:

1. Non-contact sealing measurement minimizes the use of experimental materials, prevents contact contamination, and provides more uniform and stable heating of the sample.

2. The optical sensor enables high timing resolution with an accuracy of 0.1 ms, delivering high precision and excellent repeatability in viscosity testing.
3. The preferred choice for metal viscosity testing.

III. Product Specifications

Product Name	ThermalSure® Metallic Viscometer	
Model	ETVMA012	ETVMA020
Temperature Range	Room Temperature ~1200°C	Room Temperature ~2000°C
Heating Rate	0.1~10°C/min	
Temperature Control Accuracy	±1°C	
Testing Range	0.1~2mm ² /s	
Test Repeatability	3%	
Maximum Vacuum Level	100Pa	
Testing Environments	Vacuum/Atmosphere Protection	
Power Supply	220V (50 Hz/60Hz)	380V
Rated Power	5kW	30kW
Overall Dimensions	5000*2000*3000mm	
Configuration Description	Includes 1 main machine, a heating module, a lifting module, a suspension module, a measurement module, an electrical control module, a water-gas module, a control computer, a control software.	

Disclaimer: ACS Material, LLC believes that the information in this Technical Data Sheet is accurate and represents the best and most current information available to us. ACS Material makes no representations or warranties either express or implied, regarding the suitability of the material for any purpose or the accuracy of the information contained within this document. Accordingly, ACS Material will not be responsible for damages resulting from use of or reliance upon this information.