

evo | expert + Thermosphere Asphalt Industry



DIGITAL ROTATIONAL VISCOMETERS

The new Fungilab Evo Thermosphere Asphalt Industry Series offers the latest in SHRP asphalt binder testing equipment specifically designed to meet the requirements of AASHTO T316 / ASTM D4402 high temperature test methods for asphalt binders. The precision and accuracy for controlling sample temperatures up to 300°C is ideal for the asphalt industry as well as high viscosity samples.

NEW FEATURES:

- Color TFT screen for easy readings and fast data recognition
- Intuitive Full-Touch Keypad: Data at your fingertips
- LED Indicators: Clearly displays functions
- New USB Connection: Type A 2.0 generation for downloading data to your PC
- Wi-Fi: Easily control and access your measurements

Datalogger for EVO Expert

The PRINTER/USB PEN option downloads your data to an external USB. This process offers you the flexibility to work with any gathered data on your PC in an Excel® file format. Manage your viscosity measurements with just one touch!

FDB Software

The Fungilab Data Boss (FDB) software exclusively for Fungilab customers creates viscosity programs, documents procedure, and displays results in real time. The option menu provides a clear view of the program while the help menu provides charts and descriptive texts that offer a clear explanation of working options.



Main Features

Precision: ±1% of full scale	
Displayed Date:	
Selected Speed:	rpm
Selected Spindle:	SP
Viscosity Reading:	cP (mPa·s) or cSt
Percentage of Full Scale:	%
Sample Temperature:	°C or °F
Shear Rate (with coaxial spindles):	SR (s⁻¹)
Shear Stress (with coaxial spindles):	SS (N/m²)
Density (introduced by the user):	g/cm³
Viscosity Reading:	
Dynamic Viscosity:	cP or mPa·s
Kinematics Viscosity	cSt
Unit Converter:	SI to CGS
Program Features:	
Time-to-Torque	
Time-to-Stop	
9 Working Memories	
Customizable Speed Options	
Multistep	
Ramp	
AUTO-TEST:	
Automatic internal viscometer checking	
AUTO-RANGE:	
Full scale range for combination spindle speed.	
Temperature reading by PT100	
User-enabled viscosity and temperature calibration	
6 Language Options	

Technical Specifications

Resolution:	
With low viscosity adapter:	0.01
Lower than 10,000 cP:	0.1
Equal to or above 10,000 cP:	1
Repeatability:	0.2%
Thermometer Features:	
Temperature Range:	-40°C to 300°C
Resolution:	0.1°C / 0.1722°F
Precision:	+/- 0.1°C
Type of Probe:	PT100
Supplied at 100-240 VAC, 50/60 Hz	

Spindles

AISI 316 stainless steel spindles easily identified by number and letter when changed according to viscosity range.

These are the standards our units follow:

BS:	6075, 5350
ISO:	2555, 1652
ASTM:	115, 789, 1076, 1084, 1286, 1417, 1439, 1638, 1824, 2196, 2336, 2364, 2393, 2556, 2669, 2849, 2983, 2994, 3232, 3236, 3716

Accuracy

Ambient to 80°C	<0.5°C
80°C to 150°C	<1.0°C
150°C to 300°C	<1.5°C

COMPATIBLE WITH ALL FUNGILAB ROTATIONAL VISCOMETERS:



PREMIUM Series



SMART Series



VISCOLEAD Pro

Thermosphere Standard Delivery includes:

- Choice of spindle
- Alignment Bracket
- Thermo container with safety guard and insulating cap
- Extracting Tools
- Temperature Controller



The EVO Expert is equipped with:

Viscometer head with serial number
Stand + 3 levelling adjustment for stand
Spindle Protector
PT100 Probe
Power Supply Cable
Carrying Case
Calibration Certificate

Boss Head
Standard Spindles
Spindle Rack
USB Cable
Datalogger Software CD
Operating Manual

NOTE:

All parts (including the viscometer stand) are enclosed in the carrying case.

Code	Model	Measuring Range (cP)	Speed (rpm)	Number of Speeds
VE300003	EVO Expert L	24-60,000,000	0.01-250	2600
VE300002	EVO Expert R	40-400,000,000	0.01-250	2600
VE300001	EVO Expert H	320-3,200,000,000	0.01-250	2600