

Evaporation Loss of Lubricating Oils by the Noack Method

test method

For determining the evaporation loss of lubricating oils, particularly engine oils. High temperatures can evaporate oil which may contribute to oil consumption in an engine and can lead to a change in the properties of an oil. A measured quantity of sample is placed in an evaporation crucible that is then heated to 245.2°C with a constant flow of air drawn through it for 60 minutes. The loss in mass of the oil is determined.

automatic non-woods metal noack evaporative apparatus

- Conforms to ASTM D5800, Procedure B
- 6.5" Integrated Touch Screen Panel PC
- Integrated Vacuum Pump with automatic electronic control system
- Direct sample temperature measurement via PT100 probe
- Equipped with high resistant Kalrez valve, inlet filter to remove product residuals
- USB port for connection to an external printer and/or external PC
- Storage capacity for more then 60,000 analysis
- CE Marked

The Automatic Non-Woods Metal Noack Evaporative Apparatus tests for the evaporation loss tendencies of lubricating oils at temperatures of up to 275°C. The newly designed electrically heated aluminum block allows for testing without the use of hazardous Woods Metal. The Noack tester is equipped with an Electronic regulator allowing for automatic control of temperature and differential pressure. The system is managed by an integrated 6.5" Touch Screen Panel PC by means of the Noack Evaluation Software run by a Windows® based operating system. The Evaluation Software is capable of recording all analytical parameters, allowing for user customizable parameters, methods and result reports as well as printing graphs and test results.

ordering information

catalog no.	description
K44100	Automatic Non-Woods Metal Noack Evaporative Apparatus 115V 60Hz
K44190	Automatic Non-Woods Metal Noack Evaporative Apparatus 220V 50/60Hz
accessories	
K44100-SFW	Noack Evaluation Software
K44100-1	Glassware Accessory Set Includes: 2L Glass Bottle (2), Rubber Stopper (4), Glass Delivery Tubes, Silicon Connection Tubing
K44100-2	Stand for Glass Bottles with Inclined Manometer, 0-50mm H2O
K44100-3	Noack Reference Oil, 1 Liter
KLA-DB-KIT	Set of Calibration Connectors and Cables
KLA-PT100-CAL	Calibration Decade Box – PT100 Simulator



K44100 Automatic Non-Woods Metal Noack Evaporative Apparatus

specifications

Conforms to the specifications of:
ASTM D5800 Procedure B; IP 421; DIN 51581; CEC L-40-A-93
Capacity: 1 Sample
Temperature Range: 225°C to 275°C
Temperature Resolution: 0.01°C
Temperature Accuracy: $\pm 0.2^\circ\text{C}$
Repeatability/Reproducibility: Meets or Exceeds ASTM D5800
Ambient Temperature: Max. 35°C
Relative Humidity: Max 80%
Heater Power: 420W

Electrical Requirements

115V 60Hz
220V 50/60Hz

Included Accessories

Integrated Touch Screen Panel PC
Integrated Vacuum Pump
Inlet Filter
Evaporation Crucible
Test Ball (10)
Nozzle Cleaner
Crucible Holder
Protective Gloves
Hook Wrench
Pliers

Dimensions l x w x h, in.(cm)

15.75x17.72x17.72 (40x45x45)
Net Weight: 48.5 lbs (22 kg)



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