Automatic Analysers

OilLab 500

Ring and Ball

ASTM D36
ASTM E28
EN 1427
IP 58
ISO 4625
DIN 52011
NF T 66-008
AASHTO T53
JIS K2207

Subject

Softening point of bitumen, bituminous binders, hot coatings, tar, tall oil rosins, waxes, polymeric resins.

Measuring Ring-and-Ball Principle

The sample is heated in a liquid bath respecting the heating rate prescribed by the standards test methods. During this procedure the product gradually become softer and when the test ball fall a distance of 25 mm the softening point is determined.

Measuring Ring-and-Ball Devices

- Testing unit equipped with 2 steel balls 9.5mm Ø 3.5 gr
- Mechanical ring holder and assembly, made of brass, support for 2 test rings, centering guide
- Heating plate
- Heat resistant glass Beaker, 800 ml capacity
- 2 indipendent detection systems including high precision laser emission and accurate phototransistor receiver

Measuring Temperature Probe

- Platinum resistance PT100 class A
- Measuring Parameters
- Temperatures: in °C
- Measuring range: 0°C … +250°C
- Resolution: 0.06 °C
- Accuracy: ± 0.1 °C
- Repeatability / Reproducibility: as per standards methods or better

Integrated panel PC

- TFT/LCD 8”
- Resolution 1024 × 768 16.2 M colours
- 2 USB ports for connection to an external printer and/or external PC
- Storage capacity for more than 60’000 analysis

LabLink Operating Software

- All analytical parameters recoded
- Customizable analysis parameters and methods
- Customizable results report
- Printable graphs and results
- Self-identification of the typology of the analysers connected

The software includes:

Analysis Menu

- Standard method as per ASTM / IP / ISO / EN / DIN… norms of reference
- Unknow sample
- Audible alarm and displayed messages at the end of the analysis and in case of errors and/or malfunctions

Diagnostic Menu

- Direct access to all analog, digital, inputs and outputs
- Selectable value displaying: °C / Volt
- Calibration Menu
- Automatic calibration of each temperature probe
- Last calibration date referred to each single probe displayed and relative data printable
- Display of calibration diagram
- Insertion of offset values
- Standard and advanced calibration modes

Data Utilities

- Fields for introduction of operator and product name
- Archive viewer for files recall
- All analysis stored in Excel® compatible format
- LIMS compatible

Heating

- Electrical heater
- Equipped with over temperature cut-out

Cooling System

- Air forced ventilation fan

Electrical Supply

- 220V ± 15% / 50 to 60 Hz
- 115V ± 15% / 60 Hz

Cord cable

3 conductors flexible cable 2 m (7 feet) length with PVC sheath oil and heat resistant as per CENELEC directives

Ambient Temperature

- Max 35°C
- H.R. 80%

Dimensions (cm)

- Width 48, depth 30, height 52

Weight

- 25 kg

Accessories

LAB-500/005-06: PT100 bath
LAB-500/008-05: protective shields
LAB-500/008-18: forceps
LAB-500/171-01: steels balls, 50 pz.

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