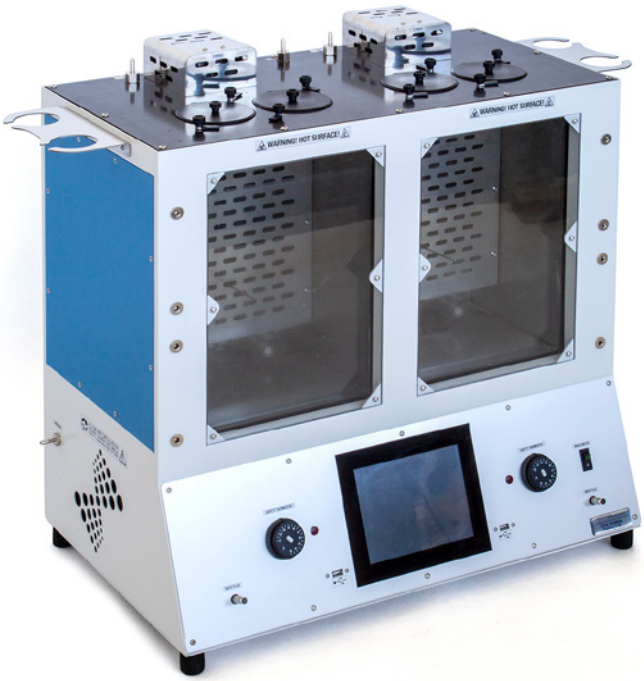
Foaming Characteristics of Lubricating Oils



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ASTM D892 - DIN 51566 - IP 146

Foaming Characteristics of Lubricating Oils.

This test method covers the determination of the foaming characteristics of lubricating oils at 24°C and 93.5°C. Means of empirically rating the foaming tendency and the stability of the foam are described, as per sequence I, II and III.

ASTM D6082

Standard Test Method for High Temperature Foaming Characteristics of Lubricating Oils.

This test method covers the procedure for determining the foaming characteristics of lubricating oils (specifically transmission fluid and motor oil) at 150 °C.

LT/FB-192000/M+
Semi-automatic apparatus for Foaming Characteristics of Lubricating Oils 4 places

- Bench top instrument with metallic case structure painted with anti-acid products and double chamber insulation, top cover made in stainless steel with four holes for the cylinders accommodation and one hole for control thermometer.
- 2 × independent 25 liters capacity stainless steel baths (one for 24°C and one for more than +93.5°C / +150°C) equipped with viewing and illuminated windows, two independent motor stirrer grants uniformity and stability of bath temperature.
- Stainless steel grid divide the glassware from the heating and stirring device.
- Air pre-heating system by copper coils immersed in the first bath.
- Lateral stand-by support for stoppers and diffusing assembly.
- Anti-floating and centring system for test cylinders.
- Control unit include 7" Touch screen panel PC with 800 × 480 resolution with dedicated Lin-Tech software able to manage the bath functions:
  · Independent management of 4 places analysis trough the activation of air micro-compressors and counter (time of blowing, waiting time, flow), audible alarm for each intervention of the operator requested.
  · Air flow monitoring system (flow rate) managed digitally and calibrated.
  · Diagnostic panel for temperature calibration, air flow, analysis parameters.
- Removable back panel equipped with drain tap for easily empty and clean the baths.
- 4 independent blowing pumps, equipped with damper system in order to avoid fluctuation in flow and external independent dryer system.
- Baths are thermo-insulated equipped with tempered glass window inside for easily cleaning the limestone or oils residue, second protection panel made of plastic material with optical transparency.
- 4 places apparatus including:
  • 4 diffuser stones (not certified)
  • 4 rubber stoppers
  • 4 air diffuser tubes
  • 4 graduated cylinders.

Dimensions (cm)

- Width 71
- Depth 40
- Height 67

Power Supply

- 115 Vac or 220 Vac, 50/60 Hz

Spare Parts

- 7094: Diffuser Stone (not certified).
- 1206: graduated cylinder 1000 ml.
- 7349: rubber stoppers, pack of 2 pcs.
- 3168: PT100 probe.
- LAB-110-012: heaters, pack of 2 pcs.
- 5547: air-inlet tube.
- 11241: washer, pack of 2 pcs.
- 7635: desiccant for filters, 450 g approx.
- 7334: silicon tubing 2 m for connecting the glassware.

Accessories

- T-AS12C: thermometer ASTM 12C.
- 7096: certified diffuser stone.
- 5699: Mott metal cylindrical diffuser, tested and verified, ASTM D6082.
- 1000386: mass flow meter.
  • Flow mass range from 9 to 450 mL/min
  • Digital display readout, connection joints ¼".
  • Power supply, battery or micro-Usb power supply.
  • Operating pressure 0.2 – 11 bar.
  • Made in Anodized aluminium, Fkm seals.
  • Repeatability ± 0.5% of full scale.
- 5232: apparatus for test maximum diameter / permeability of diffusers.
  • Air compressor with filter.
  • Air regulator and U-tube manometer.
  • Glass calibrated cylinder with delivery tube.
  • Filtering flask wide mouth with rubber stopper and delivery tube.
  • Digital flowmeter 1.2 to 60 nL/min with calibration certificate.
- LAB-892-099: VL reference liquid, bottle of 1.0 liter approx., 1 year shelf life, foam value acc. ASTM D892.
- LT/CB-40800/M-30: laboratory cryostat bath for temperatures up to -30°C.
  • Solid steel structure coated in epoxy anti-acid paint with upper side made in stainless-steel.
  • Internal chamber in seamless stainless steel with rounded corners for efficient circulation.
  • Easy cleaning thanks to atmospheric drain on the bottom of the chamber.
  • Control head equipped with digital display showing set and actual temperature, display resolution 0,1°C.
  • Temperature range from -30°C to +99,9°C accuracy to ±0,5°C to +37°C.
  • Manual safety thermostat against overtemperature.
  • Circulating pump:
  prevalence 4m / 2 l - min
  ~ prevelance 1m /12 l - min.
  • Weight: only 20 kg (empty).
  • Dimensions:
  width 33,5 × depth 47,0 × height 63,0 cm.
  • Internal bath dimensions:
  width 10,5 × depth 12,5 × height 15,0 cm.
  • Capacity 8 liters.
  • Power supply: 220 Vac or 115 Vac 50/60Hz.
  • Max. consumption 1500 Watt.

CE