



Oxidation Stability



LT/OX-192000/L-M



LT/OX-192000-8/DM

ASTM D943
ASTM D2274
ASTM D4310
DIN 51587
IP 388
ISO 4263

ASTM D943 - DIN 51587 - ISO 4263 Test Method for Oxidation Characteristics of Inhibited Mineral Oils

This test method is used to evaluate the oxidation stability of inhibited steam-turbine oils in the presence of oxygen, water, and copper and iron metals at an elevated temperature. The test method is also used or testing other oils such as hydraulic oils and circulating oils having a specific gravity less than that of water and containing rust and oxidation inhibitors.

ASTM D2274 - IP 388 Oxidation Stability of Distillate Fuel Oil (Accelerated Method)

This test method covers the measurement of the inherent stability of middle distillate petroleum fuels under specified oxidizing conditions at 95°C.

ASTM D4310 - Determination of the Sludging and Corrosion Tendencies of Inhibited Mineral Oils

This test method is used to evaluate the tendency of inhibited mineral oil based steam turbine lubricants and mineral oil based anti-wear hydraulic oils to corrode copper catalyst metal and to form sludge during oxidation in the presence of oxygen, water, and copper and iron metals at an elevated temperature.

The test method is also used for testing circulating oils having a specific gravity less than that of water and containing rust and oxidation inhibitors.

Art. LT/OX-192000/L-M Oxidation Stability Liquid Bath 8 Places

EN ISO 12205 / ASTM D2274 / ASTM D943

- Height-place steel cover and stainless steel liquid bath with approx. 40 litres capacity
- Insulated double wall
- Stainless steel resistance
- 8-place flowmeter system fitted with 8 flowmeters, throttle valves equipped with a 8-place refrigerating system with pipelines for water inlet and outlet
- Temperature controlled by a digital thermoregulator PID with over-temperature alarm and a probe PT100A
- Range: ambient to 120°C

Power supply

- 230 Vac 50 Hz / or 115 Vac 50 Hz

Dimensions

- cm 42 × 46 × 141

Weight

- 50 Kg

Art. LT/OX-192000/D-M Oxidation Stability Dry Bath 8 Places

EN ISO 12205 / ASTM D2274 / ASTM D943

- Height-place steel block
- Insulated double wall
- Stainless steel resistance
- 8-place flowmeter system fitted with 8 flowmeters, throttle valves equipped with a 8-place refrigerating system with pipelines for water inlet and outlet
- Temperature controlled by a digital thermoregulator PID with over-temperature alarm and a probe PT100A
- Range: ambient to 130°C

Power supply

- 230 Vac 50 Hz / or 115 Vac 50 Hz

Dimensions

- cm 42 × 46 × 131

Weight

- 60 Kg



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General Accessories

- LT/VP-8618/K: vacuum pump – 220 Vac
- LAB-102-501/FC: Fresenius column made in glass filled with desiccant
- T-AS40C: thermometer ASTM 40C IP 70C
- T-AS40C/C: thermometer ASTM 40C IP 70C with DKD calibration certificate

Spare Parts

- LAB-101-929/1.6: flowmeter range 1.6 – 16 NI/h with connection and certificate of compliance

Accessories for ASTM D943

- LAB-101-921: oxidation cell
 - oil test tube
 - oxygen inlet tube
 - fungus condenser
- LAB-101-441/L100: silicon carbide paper 100 grit, pack of 100 pcs.
- LAB-101-922/CU: wire catalyst copper 1.6 mm Ø, 500 gr.
- LAB-101-922/SS: wire catalyst steel 1.59 mm Ø, 500 gr.
- LAB-101-923: thermometer bracket (for test cell)
- LAB-101-924/10: syringe luer lock 10 ml
- LAB-101-924/50: syringe luer lock 50 ml
- LAB-101-925: syringe sampling tube stainless steel L = 560 mm
- LAB-101-925/S: stopper for luer fitting
- LAB-101-926/H: sampling tube holder
- LAB-101-926/S: sampling tube spacer
- LAB-101-927: wire coiling mandrel to form spiral of steel and copper catalyst wire
- LAB-101-928: reducer manometer for O₂, primary 0-250 bar, reducer 0-1 bar
- LAB-101-929/I: oil level indicator (for test cell)
- T-AS137C: thermometer ASTM 137C

Accessories for ASTM D2274

- LAB-102-274/C: evaporating vessel, borosilicate glass beaker 200 ml capacity tall form
- LAB-101-441/L100: silicon carbide paper 100 grit, pack of 100
- T-AS40C: thermometer ASTM 40C IP 70C
- T-AS40C/C: thermometer ASTM 40C IP 70C with calibration certificate
- LAB-101-921: oxidation cell
 - oil test tube
 - oxygen inlet tube
 - fungus condenser
- LAB-102-274/A: filtration system
 - 2 vacuum flask
 - stopper
 - tubes
 - filtering crucible
- LT/HD-1280/S6: heating plate 600 W
- LAB-102-274/B-0.8: membrane filters, Ø 47 mm, 0.8 µm, pack of 100 pcs.
- LT/VP-8618/K: vacuum pump

Accessories for ASTM

- LAB-101-922/T: oil test tube, h 600 mm, with air delivery tube made in glass
- LAB-101-922/C: cork stopper with hole for air tube pack of 10 pcs.

Accessories for LT/OX-192000/L-M

- LAB-100-371/50: silicone oil can of 25 litres

Accessories for ASTM D4310

- LAB-2460-250: vacuum pump
- LT/DO-248000/F/50S: drying oven
- LAB-101-921: oxidation cell
- LAB-101-922: wire catalyst copper/steel 1.63 / 1.59 mm Ø, 3 m, pack of 5
- LAB-101-923: thermometer bracket
- LAB-101-924/50: syringe luer-lock 50 ml
- LAB-101-927: wire coiling mandrel
- LAB-101-928: reducer manometer for O₂,

- primary 0-250 bar, reducer 0-1 bar
- LAB-101-929: reducer manometer for air, primary 0-250 bar, reducer 0-1 bar, direct connect to traditional vessel
- LAB-101-929/I: oil level indicator
- LAB-101-441/P: silicon carbide paper 100 grit, pack of 100
- LAB-100-371/50: silicone oil, can of 25 litres
- T-AS40C: thermometer ASTM 40 - IP 70C
- T-0943: thermometer special for cell, 80° +100°C, div. 0.1°, immersion 76 mm, L = 250 mm

Spare Parts for ASTM D2274

(art. LT/OX-192000/M - liquid bath)

- LAB-192-001: main switch
- LAB-192-040: static relay
- LAB-192-2000W: heaters
- LAB-192-230: warning lamp
- LAB-192-200-I: 3 wire PT100 bath
- LAB-192-022K: digital controller
- LAB-192-023F: relay 2 contacts
- LAB-192-024P: safety thermostat
- LAB-192-025G: level sensor
- LAB-192-020T: motor stirrer