

OXIDATION

OXIDATION STABILITY - TOST

ASTM D943 ISO 4263 DIN 51587 OXIDATION CHARACTERISTICS OF INHIBITED MINERAL OILS

This test method covers the evaluation of the oxidation stability of inhibited steam-turbine oils in the presence of oxygen, water, and copper and iron metals at an elevated temperature. This test method is limited to a maximum testing time of 10 000 h. This test method is also used for 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 (203°F)

ASTM D2893 OXIDATION CHARACTERISTICS OF EXTREME-PRESSURE LUBRICATION OILS

These test methods (a and b) cover the determination of the oxidation characteristics of extreme-pressure fluid lubricants, gear oils, or mineral oils.

ASTM D4310 IP 157 DETERMINATION OF SLUDGING AND CORROSION TENDENCIES OF INHIBITED MINERAL OILS

This test method covers and 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.

ASTM D7462 IP 388 ISO 12205 OXIDATION STABILITY OF BIODIESEL (B100) AND BLENDS OF BIODIESEL WITH MIDDLE DISTILLATE PETROLEUM FUEL (ACCELERATED METHOD)

This test method covers a measurement of the oxidation stability of biodiesel (B100) blendstock as specified in Specification D6751 and blends of biodiesel with middle distillate petroleum fuels, including B6 to B20 blends as specified in Specification D7467 under specified oxidizing conditions at 95°C (203°F). Specifically, the oxidation stability is assessed by the formation and measurement of insoluble degradation materials.

6-places stainless steel, insulated double wall, double bottom for supporting the cells, a 6-place refrigerating system with pipelines for water inlet and outlet. The temperature control is a thermoregulator PID with PT100 probe class A and overtemperature alarm, stainless steel heater, cooling coil, motor stirrer, insulated double wall, safety internal level for low liquid with warning lamp.

Technical specifications:

- Temperature: from ambient to 130°C (266°F)
- Stability: $\pm 0.1^\circ\text{C}$
- Power supply: 230V $\pm 10\%$ 50/60Hz
- Power: 2200W
- Capacity: 55 liters
- Dimensions: 57x47x73cm
- Weight: 32Kg

1920 OXIDATION STABILITY BATH

1920/S/4 OXIDATION STABILITY DRY BATH (4 POSITIONS)

Aluminum block, 4 positions

Technical specifications:

- Temperature: from ambient to 130°C (266°F)
- Stability: $\pm 0.1^\circ\text{C}$
- Power supply: 230V $\pm 10\%$ 50/60Hz
- Power 2100W
- Dimensions: 51x55x66 cm
- Weight: 77 kg

1920/S/8 OXIDATION STABILITY DRY BATH (8 POSITIONS)

Aluminum block, 8 positions

Technical specifications:

- Temperature: from ambient to 130°C (266°F)
- Stability: $\pm 0.1^\circ\text{C}$
- Power supply: 230V $\pm 10\%$ 50/60Hz

