

Oxidation Stability

Oxidation Characteristics of
Inhibited Mineral Oils
Sludging and Corrosion Tendencies
of Inhibited Mineral Oils
Oxidation Stability of Distillate
Fuel Oil (Accelerated Method)
Oxidation Characteristics of
Extreme-Pressure Lubrication Oils

test method

Evaluates oxidation stability by subjecting the sample to a temperature of 95°C in the presence of oxygen or dry air. For inhibited mineral oils, the sample is reacted with oxygen in the presence of water and an iron-copper catalyst.

oxidation stability apparatus

- Eight (8) and twelve (12) position benchtop liquid baths for convenience
- Thirty (30) and sixty (60) position floor-model liquid baths for high-volume testing requirements
- Conforms to all relevant ASTM specifications
- Custom configurations for ASTM D2983 and AOCS CD12-57 tests available

eight-place precision oxidation bath

Conforming to ASTM and related test method specifications
Constant temperature bath with solid state temperature control, calibrated flowmeters and condenser water manifold for oxidation stability tests on fuels and lubricants. Individual flowmeters and control valves for each oxidation cell deliver air flow at the rate of 3L/h. Condenser water manifold has individual control valves for each cell. Fully digital touch screen controller provides quick temperature stabilization without overshoot, and the bath is protected by a redundant overtemperature control circuit that interrupts power should bath temperature exceed a programmed cut-off point. Display provides actual setpoint temperature values in °C/°F format. Communications software (RS232, etc.), ramp-to-set and other enhanced features are available as extra cost options. Double-wall insulated baths are equipped with copper immersion heaters and a 1/20 hp circulation stirrer. Stainless steel bath interior has a built-in support rack and overflow/drain to immerse the test cells at the required depth. Order oxidation cell glassware and accessories separately.

ordering information

catalog no.	description
K64200	Oxidation Stability Precision Bath, 8-Unit, 115V 60Hz
K64290	Oxidation Stability Precision Bath, 8-Unit, 220-240V 50/60Hz



K64200 8-Place Oxidation
Stability Precision Bath

specifications

Conforms to the specifications of:
ASTM D943, D2274, D2893*, D4310, D6158; AOCS
CD12-57**, DIN 51586, 51587; ISO 4263, ISO 12205;
NF M 07-047; NF T 60-150

Testing Capacity:

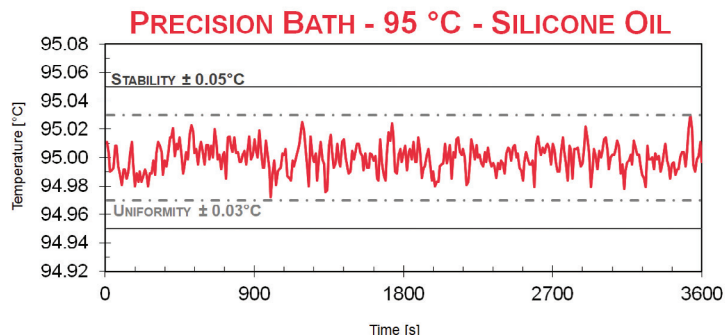
Eight (8) oxidation cells
Temperature Range: ambient to 250°F (121°C)
Temperature Control Stability: $\pm 0.09^\circ\text{F}$ ($\pm 0.05^\circ\text{C}$)
Heater: 2000W
Bath Medium: 9.9 gal (37.5L) white technical oil

Electrical Requirements:

115V 60Hz, Single Phase, 19A
220-240V 50/60Hz, Single Phase, 10A

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

23x20.1x28 (58.4x51.1x71.1)



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Oxidation Stability

twelve-place oxidation bath

- Conforming to ASTM and related test method specifications

Constant temperature bath with solid state temperature control, calibrated flowmeters and condenser water manifold for oxidation stability tests on fuels and lubricants. Individual flowmeters and control valves for each oxidation cell deliver air flow at the rate of 3L/h. Condenser water manifold has individual control valves for each cell. Microprocessor PID control provides quick temperature stabilization without overshoot, and the bath is protected by a redundant overtemperature control circuit that interrupts power should bath temperature exceed a programmed cut-off point. Display provides actual setpoint temperature values in °C/°F format. Communications software (RS232, etc.), ramp-to-set and other enhanced features are available as extra cost options. Double-wall insulated baths are equipped with copper immersion heaters and a 1/20 hp circulation stirrer. Stainless steel bath interior has a built-in support rack and overflow/drain to immerse the test cells at the required depth. Order oxidation cell glassware and accessories separately.

specifications

Conforms to the specifications of:

ASTM D943, D2274, D2893*, D4310, D6158; AOCS
CD12-57** DIN 51586, 51587; ISO 4263, ISO 12205;
NF M 07-047; NF T 60-150

Test Capacity: 8 or 12 oxidation cells

Temperature Range: ambient to 212°F (100°C)

Temperature Control Stability: $\pm 0.2^\circ\text{F}$ ($\pm 0.1^\circ\text{C}$)

Bath Medium: 19 gal (71.9L) white technical oil

Electrical Requirements:

115V 60Hz, Single Phase, 32.6A

220-240V 50/60Hz, Single Phase, 17.0A



**K12219 12-Place Oxidation
Stability Bath**

ordering information

catalog no.	description
K12212	Oxidation Stability Bath, 12-Unit, 115V 60Hz
K12219	Oxidation Stability Bath, 12-Unit, 220-240V 50/60Hz



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