

# Oxidation

Oxidation Stability of Inhibited Mineral Turbine Oils  
Oxidation Stability of Straight Mineral Oil  
Oxidation Stability of Mineral Insulating Oil  
Oxidation Stability of Inhibited Mineral Insulating Oils  
Oxidation Test For Lubricating Oil

## test method

Oxidation stability is determined by exposing the sample to a measured oxygen flow at elevated temperature in the presence of metal catalysts.

## oxidation stability apparatus (cigre bath)

- Conforms to IP specifications
- Twelve-sample testing capability
- Microprocessor programmable high accuracy temperature control

Constant temperature aluminum block type bath for oxidation stability tests in accordance with the Institute of Petroleum (IP) testing methods. Accommodates twelve sets of oxidation and absorption tubes. Insulated block bath operates efficiently at temperatures of up to 200°C (392°F). Microprocessor PID control provides quick temperature stabilization without overshoot, and the bath is protected by an overtemperature control circuit that interrupts power should block temperature exceed a programmed cut-off point. Dual LED displays provide actual and setpoint temperature values in °C/°F format. Communications software (RS232, etc.), ramp-to-set and other enhanced features are available as extra cost options. Contact your Koehler representative for information. A bank of twelve flowmeters on a movable stand regulates oxygen flow at  $1 \pm 0.1$  L/h to each oil sample per IP specifications. Includes soap bubble flowmeter for checking oxygen flow rate.

## ordering information

catalog no.	description	
<b>K56100</b>	Oxidation Stability Apparatus, 115V 60Hz	1
<b>K56190</b>	Oxidation Stability Apparatus, 220-240V 50/60Hz	
<b>K56200</b>	Oxidation Stability Apparatus, 115V 60Hz For IP 48 Method.	
<b>K56290</b>	Oxidation Stability Apparatus, 220-240V 50/60Hz For IP 48 Method	

### accessories

<b>K56110</b>	Set of Glassware Includes one each oxidation and absorption tube. For IP 48, IP 280, IP 306, IP 307, IP 335	12
<b>250-000-09C</b>	ASTM 9C Thermometer, Range: -5 to +110°C (equivalent to IP 15C Thermometer)	1
<b>250-000-41C</b>	ASTM 41C Thermometer, Range: 98 to 152°C (equivalent to IP 81C Thermometer)	

*A liquid bath version of this equipment to perform the proposed ASTM test for High Temperature Stability of Distillate Fuels is also available. Please contact Koehler's Customer Service for additional information.*



K56100 Cigre Bath with  
K56110 Glassware

## specifications

Conforms to the specifications of:  
IP 48, IP 280, IP 306, IP 307, IP 335  
Testing Capacity: Twelve samples  
Temperature Range: 80 to 200°C  
Temperature Uniformity:  $\pm 0.2$ °C

### Air Flow Control:

Standard Model: 1L/h to each sample  
IP 48 Model: 15L/h to each sample

### Electrical Requirements:

115V 60Hz, Single Phase, 12.1A  
220-240V 50/60Hz, Single Phase, 6.3A

### Included Accessories

Soap Bubble Flowmeter

### Dimensions

Bath: dia.xh,in.(cm)  
17x22 (43.2x55.9)  
Flowmeter Stand: lwxh,in.(cm)  
24x8x30.25 (61x20.3x76.8)  
Net Weight: 186 lbs (84.4kg)

### Shipping Information

Shipping Weight: 245 lbs (111.1kg)  
Dimensions: 16.7 Cu. ft.