



## OBA 1

Oxidation Stability Tester

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The semi-automatic OBA 1 is used to determine the oxidation stability (induction period) and the tendency to form gum (potential residue) under accelerated oxidation conditions.

OBA 1 is suitable for oxidation stability applications of gasoline and aviation fuel.

### Benefits at a Glance

- Digital PA 5-OBA programmable manometers
- Pressure-certified oxidation vessels
- 4 test places for parallel testing
- PC-software for data handling

### Convenient Operation

- The PA 5-OBA is a programmable manometer with a digital display and pressure connection. It determines automatically the induction period and checks the leakage stability of the oxidation vessel before starting the test automatically
- Data can be transferred from the manometer to your PC via an USB interface (cable included)
- The included PC-software PetroNet Standard allows to monitor the numerical and graphical data on the screen
- Convenient temperature reading with Pt1000 temperature sensor (optional) and correction of the induction period according to the used method

### Customized User Flexibility

- Available with liquid bath or dry-heat bath
- Dongle to unlock the PA 5 Professional module of the PetroNet Standard software to allow full access to the programmable parameters of the PA 5 manometers (optional)
- PA 5 manometer pressure calibrator (optional)
- Dry-heat bath calibration set (optional)
- Certified manometers available with manufacturer's calibration certificate or official (DKD) calibration certificate (optional)
- Tool set to ease the pressure vessel opening and closing procedure (optional)
- Support shelf for test vessel (optional)



### Standard Methods

#### Induction period of gasoline:

ASTM D525, ISO 7536, JIS K 2287,  
FTM 791-3352, IP 40

#### Potential residue of aviation fuels:

ASTM D873, JIS K 2276, FTM 791-3354, IP 138

### Technical Specifications

Configuration	OBA 1	OBA 1/T
Application range	up to 200 °C	up to 120 °C
Tempering	Liquid bath, 45 L	Dry-heat bath
Test places	4	
Pressure range measurement	0 bar to 14 bar or 1400 kPa or 203 psi	
Resolution displayed	1 mbar or 0.1 °C	
Internal memory	57,000 data sets	
Oxidation vessel	Stainless steel, certified for 40 bar, static pressure at 100 °C	
Interface	USB	
Power supply	115 V, 50 Hz/60 Hz, 1000 W or 230 V, 50 Hz/60 Hz, 2000 W	115 V, 50 Hz/60 Hz, 900 W or 230 V, 50 Hz/60 Hz, 2300 W
Dimensions (W x D x H)	430 mm x 430 mm x 900 mm	900 mm x 600 mm x 900 mm
Weight	31 kg	66 kg
Resolution	0.1 kPa	