

Oxidation Stability of Gasolines - OBA 2 (semi-automatic)

ASTM D 525, ASTM D 873, DIN 51480, DIN 51799 (obs.), FTM 791-3352, FTM 791-3354, IP 40, IP 138, JIS K2276, JIS K2287, BS 4347 (obs.), BS 4456 (obs.)

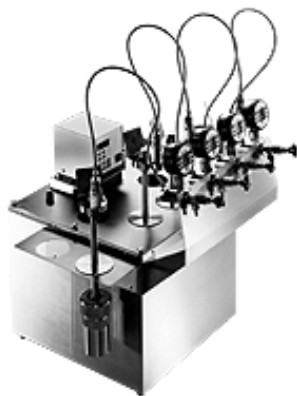
Product group(s): Fuel

User group(s): Fuel, Gas Oil, Gasoline, Jet Fuel, Turbine Fuel

Scope: This test method covers the determination of the stability of gasoline in finished form only, under accelerated oxidation conditions.

Special Safety Version

The "OBA-Safety" instrument set has special features to comply with German safety regulations to avoid health-hazards caused by unexpected explosions as much as possible and also protect the expensive pressure sensors.



Oxidation Stability Test Equipment

Oxidation Test Arrangement - OBA 2

available with:

- Liquid Bath or Dry-Heat Bath
- 2 oxidation vessels or 4 oxidation vessels
- 2 intelligent manometer or 4 intelligent manometer

Technical Data

OBA 2 - Oxidation Test Arrangement:

Temperature range:	up to +200 °C
Stability:	+/-0.02 °C
Heater:	2.000 W
Dimensions on bench:	430 x 430 mm
Control thermometer:	+95 to +103 : 0.1 °C

OBA 2/T - Oxidation Test Arrangement:

Temperature range:	up to +200 °C
Stability:	+/-0.02 °C
Heater:	2.000 W
Dimensions on bench:	600 x 300 mm
Control thermometer:	+95 to +103 : 0.1 °C

Manometer PA 4-OBA:



Display:	0.000 bar 14.00 bar
Resolution:	0.001 bar (up to 10 bar) and 0.01 bar (above 10 bar)
Accuracy (37 °C):	0.1 % fs
Selectable pressure indication:	psi, kPa, bar, mWc
Male Thread:	G 1/4 "

Main Unit

13-1664	<p>OBA 2 - Oxidation Test Arrangement <u>Liquid Bath with 4 vessels, 4 safety kits and 4 manometers</u></p> <p><u>Induction Period of Gasoline:</u> ASTM D 525 - DIN 51 480 - FTM 791-3352 - IP 40 - ISO 7536 - JIS K2287 (BS 4347)</p> <p><u>Potential Residue of Aviation Fuels:</u> ASTM D 873 - FTM 791-3354 - IP 138 - JIS K2276 (BS 4456, DIN 51 799)</p> <p><u>Consisting of:</u></p> <p><u>4-place liquid bath:</u> of stainless steel, capacity 45 liters , Thermostat-Head with digital indication, holder panel for four terminals for manometers and valves and two side panels to rest bombs not in use and pressure charging line.</p> <p><u>4 oxidation vessels:</u> of stainless steel, leak free closure possible without the aid of tools , pressure certificate from TÜV for 104 bar static pressure, burst disk 15 bar and burst disk protection shield, one test glass with cover for each bomb. For test temperatures above 100 °C Petrotest® can not accept responsibility.</p> <p><u>4 pressure-peak damping devices (Safety Kit):</u> flame arrester, connecting line, manometer-terminal and filling valve.</p> <p><u>4 intelligent manometers PA 4-OBA:</u> for fully automatic determination of the Oxidation Stability or Induction Period, Potential Residue and Storage Stability. All parts in contact with the samples are of stainless steel.</p> <p>Long Life Lithium Battery included.</p> <p>Data can be transferred via an RS-232 interface to a PC. (running with WIN 98/NT/2000/XP). The software directly allows to see numerical and graphical data on the screen. Data are available in ASCII for further Excel interpretation as well. Transfer Software and Cable included. The instrument checks the leakage stability of the pressure vessel first and then switches automatically to the induction period test.</p> <p>Power supply: 230 V, 50/60 Hz</p>
13-1656	<p>OBA 2 - Oxidation Test Arrangement <u>Liquid Bath with 2 vessels, 4 safety kits and 2 manometers</u></p> <p><u>Otherwise like 13-1664</u></p> <p>Power supply: 230 V, 50/60 Hz</p> <hr/>
13-1666	<p>OBA 2 - Oxidation Test Arrangement <u>Dry-Heat Bath with 4 vessels, 4 safety kits and 4 manometers</u></p> <p><u>4-place Dry-Heat Bath:</u> of stainless steel housing, aluminum block with 4 wells, PID-Regulator with digital setting and four digit indication, holder for four manometer-terminals and pressure charging line.</p> <p><u>Otherwise like 13-1664</u></p> <p>Power supply: 230 V, 50/60 Hz</p>
13-1658	<p>OBA 2 - Oxidation Test Arrangement <u>Dry-Heat Bath with 2 vessels, 4 safety kits and 2 manometers</u></p> <p><u>Otherwise like 13-1666</u></p> <p>Power supply: 230 V, 50/60 Hz</p>

Spare Parts

13-1680	Support Shelf for 2 vessels (while not in use)
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	<p>13-1668 Oxidation Test Vessel "OBA-Standard" <u>Consisting of:</u></p> <p><u>Oxidation Test Vessel "OBA-Standard":</u> with burst disk, protection shield, needle valve and sample container</p> <p><u>Digital Manometer PA4-OBA (14 bar):</u> with G1/4" male thread, Long Life Lithium battery, transfer software and cable.</p>
	<p>13-1131 Digital Manometer PA 4 - OBA for determination of the oxidation stability of lubricating oils</p> <p><u>Technical Data:</u> Display : 0.000 14.00 bar Resolution: 0.001 bar (up to 10 bar) 0.01 bar (above 10 bar) Accuracy : 0.1 % fs , factory-calibrated at 37°C Selectable pressure indication : psi, kPa, bar, mWc. Male thread : G 1/4</p> <p><u>Note:</u> Works-certificate or DKD-certificate on request!</p> <p>Pressure values are stored in the manometer-memory and can be transferred directly to a PC by the supplied data logger program and data cable.</p> <p><u>Logger software:</u> Win 3.x, 95, 98, NT compatible. Data available in ASCII for further Excel interpretation as well.</p> <p>Energy supply by included long-life lithium battery. All parts, which have contact with the sample, are made of stainless steel.</p>
<p>13-2130</p>	<p>Rubber-Protection-Collar for Manometer PA 4</p>
<p>13-1137</p>	<p>Adapter G ¼" female to M 10x1 male thread</p>
<p>17-0553</p>	<p>Table Holder, to open and close OBA-vessels</p>
<p>17-0554</p>	<p>Vice Inlay for table holder</p>
<p>13-0525</p>	<p>Spanner Set (12, 17, 19, 24 and 27 mm)</p>
<p>17-0237</p>	<p>Allen Key (2 mm) to adjust the dip-in depth of the vessel</p>
<p>16-0720</p>	<p>Drain Cock for thermostatic baths</p>
<p>13-0513</p>	<p>Sample Container & Cover , heat-resistant glass</p>
<p>21-0606</p>	<p>Thermometer ASTM 22C / IP 24C Range: +95 to +103 : 0.1 °C Length: 275 mm, Immersion: total, Ø 7 mm</p>
<p>13-0592</p>	<p>Burst Disc, 15 bar, including gasket (with certificate)</p>
<p>13-1149</p>	<p>O-Ring, for vessel, 54 x 3 mm, (up to 200°C), pack of 10</p>
<p>13-0524</p>	<p>Gaskets PTFE (11 x 6 x 2 mm), pack of 10</p>
<p>17-0234</p>	<p>Gaskets PTFE (25 x 13.5 x 2 mm), G ¼", pack of 10</p>
<p>17-0235</p>	<p>Gaskets PTFE (18 x 6 x 2 mm), G ½", pack of 10</p>
<p>13-1132</p>	<p>Battery, Lithium, 3.6 V, with wire and plug</p>
<p>13-0545</p>	<p>Pressure Line for oxygen supply 150 cm in length with couplings, EU-Version</p>
<p>13-0546</p>	<p>Heating Unit, 2000 W, 230 V (two are used in dry-heat bath (13-1672))</p>
<p>25-0602</p>	<p>Heating Element DP, 2000 W, 230 V</p>

Order Guideline

Minimum equipment: 1x Oxidation Test Arrangement

Spares (approx. 1 year): 13-0513, 21-0606, 13-1149, 13-0524, 17-0234,
17-0235
Additional requirements: