

## Oxidation Stability of Mineral Oils (BAM) - IP 48

IP 48

**Product group(s):** Oil

**User group(s):** Biodiesel, Fuel, Gear Oil, Hydraulic Fluid, Insulating Oil, Jet Lube, Lube Oil, Power Plant, Turbine Oil

**Scope:** The synthetically accelerated ageing of fluids with the Oxidation Stability Apparatus is usually only a pre-treatment of a sample according to the above methods. These methods determine the serviceability of lubricants and other non-aqueous fluids.



### BAM - Oxidation Stability Test Equipment

to be composed of:

- Bath (Dry-Heat or Liquid Bath with 8 or 12 testplaces)
- Test Kit
- Test Specimens

## Main Unit

<b>16-1502</b>	<b>8-Place Liquid Bath - Oxidation Apparatus "BAM-250"</b> DIN 51 352-1+2 - IP 48 - ISO 6617-1+2
	<p><u>Consisting of:</u> stainless steel liquid bath, volume 35 l, equipped with a removable anti-air draught screen and test tube holder, thermostatic control, infinitely variable up to 250 °C +/-0.01 °C, integrated cooling coil, with digital display, stirrer, low level and temperature excess protection, thermometer IP 22C (+195 ... +205:0,1 °C), miniature spirit level vertical and horizontal, 2 flowmeter arrangements on very stable vibration avoiding stands, each comprising: 4 flowmeters with needle valve, flow rates of 1.6 ... 16 l/h. with works certificate.</p> <p><u>Attention!</u> Drain cock, glassware and catalyst matter are not included.</p> <p>Power supply: 230 V, 50/60 Hz</p>
<b>16-1503</b>	<b>8-Place Liquid Bath - Oxidation Apparatus "BAM-250"</b> Like 16-1502 but: Power supply: 115 V, 50/60 Hz
<b>16-0720</b>	<b>Drain Cock for thermostatic baths (G<sup>3</sup>/<sub>4</sub>"</b>

16-1569	<p><b>8-Place Dry-Heat Bath - Oxidation Apparatus "BAM-250"</b>  <b>Tube Ø 26</b>  IP 48</p> <p><u>Consisting of:</u></p> <p><u>Dry Heat Bath (without accessories):</u>  stainless steel dry-heat bath (ambient temperature up to +250 °C) with a heater block of aluminum; equipped with a LED indicating PID heater control.</p> <p><u>2 Flowmeter Units:</u>  flowmeter unit (flow rates of 1.6 ... 16 l/h, 4-place), with calibration certificate and needle valve.</p> <p><u>Supplied with:</u>  2 Front plates for bath, heat protect for bath, miniature spirit level vertical and horizontal, cover for bath-opening 29 mm, temperature measuring tube, o-ring for tube, thermometer holding stopper, connection hose 4 m, silicon, t-connector and thermometer (ASTM 41C/IP 81C).</p> <p><u>Attention!</u> Glassware and catalyst matter are not included.</p> <p>Power supply: 230 V, 50/60 Hz</p>
16-1570	<p><b>8-Place Dry-Heat Bath - Oxidation Apparatus "BAM-250"</b>  <b>Tube Ø 26</b></p> <p><u>Like 16-1569 but:</u>  Power supply: 115 V, 50/60 Hz</p> <hr/>
16-1577	<p><b>12-Place Dry-Heat Bath - Oxidation Apparatus "BAM-250"</b>  <b>Tube Ø 26</b>  IP 48</p> <p><u>Like 16-1569 but:</u>  with 12-place bath, without protective screen for bath.</p> <p>Power supply: 230 V, 50/60 Hz</p>
16-1578	<p><b>12-Place Dry-Heat Bath - Oxidation Apparatus "BAM-250"</b>  <b>Tube Ø 26</b></p> <p><u>Like 15-1577 but:</u>  Power supply: 115 V, 50/60 Hz</p> <hr/>
16-1504	<p><b>Test Kit Type "IP 280" for 8 test places</b>  ASTM D 2440 - EN 61 125 A+B+C - IP 48 - IP 280 - IP 306 - IP 307 - IP 335 - ISO 7624 - JIS C2101</p> <p><u>Consisting of:</u>  16 oxidation / absorption tubes, complete with (ø 26 x 212 mm, NS 24/29) (each tube with 2 removable hose connectors)  8 silicon connection hoses of 1m each  2 o-ring sets (pack of 10 pcs.)</p>
16-0443	<p><b>Metal Test Specimens - Code: 409 C for Oxidation of Mineral Oil, (BAM)</b>  ASTM 2440 - EN 61 125 A+B+C - IP 48 - IP 306 - IP 307 - IP 335 - JIS C2101</p> <p>Material/Composition: Copper wire  Dimension:Ø 1.01mm  Pack/Set: 5 kg</p>

## Options & Accessories

**16-1558 Soap Bubble Meter Set 150 ml**  
DIN 51 352-1+2 - ISO 6617-1+2

**21-0697 Digital Stop Watch**



Consisting of:

7-digit LC display, max. 10 hours countdown with 1/100 sec. precision, Lithium battery

- quartz-controlled
- water resistant
- memory function
- calendar

**25-0485 Vacuum-Pump with Mini-Compressor & Accessories**



Consisting of:

- 1 oil-free diaphragm pump with filter
- 1 hose (Ø 6 mm x 1 m, silicon, clear)
- 1 T-piece connection (Ø 7.5 mm)
- 1 Hoffmann-Clip

Technical Data:

Max. capacity: 6 l/min  
End vacuum: 100 mbar  
Operating pressure : 2.4 bar (overpressure)  
Dimensions / Weight : 9 x 17 x 12 cm (WxDxH), 1.9 kg

Power supply : 220/230 V, 50 Hz, EU-plug

**25-0486 Vacuum-Pump with Mini-Compressor & Accessories**

Like 25-0485 but:

Power supply: 115 V, 60 Hz

**17-0802 Circulation Air Oven**



Consisting of:

thermostatically-controlled, includes of 2-hours & permanent time switch, thermometer for temperature inspection and perforated intermediate bottom.

Important: Not explosion protected!

Technical Data:

Temperature range: +60 to +200 °C  
Temperature constancy: +/- 2-3 K  
Capacity: 14 l  
Inner dimensions (W x H x D): 19 x 20 x 36 cm  
Outer dimensions (W x H x D): 31 x 38.5 x 47 cm  
Weight: 17 kg

Power supply: 230 V, 50/60 Hz

**16-0720 Drain Cock for thermostatic baths (G¼")**

## Spare Parts

**16-1539 Oxidation Tube, complete**  
ASTM D 2440 - DIN 51 538 - EN 61 125 A+B+C - IP 48 - IP 280 -  
IP 306 - IP 307 - IP 335 - ISO 7624 - JIS C2101

**16-1553 O-ring (25 x 5.0 mm, 10 pcs.)**  
ASTM D 2440 - EN 61 125 A+B+C - IP 48 - IP 280 - IP 306 -  
IP 307 - IP 335 - ISO 7624 - JIS C2101

**16-1556 O-ring for temperature tube, 1 pc**  
ASTM D 2440 - EN 61 125 A+B+C - IP 48 - IP 280 - IP 306 -  
IP 307 - IP 335 - ISO 7624 - JIS C2101

<b>16-1555</b>	<b>O-ring for dry-heat bath with tube Ø 26</b> ASTM D 2440 - DIN 51 538 - EN 61 125 A+B+C - IP 48 - IP 280 - IP 306 - IP 307 - IP 335 - ISO 7624 - JIS C2101
<b>16-1531</b>	<b>Temperature Measuring Tube</b> ASTM D 2440 - DIN 51 373 - DIN 51 538 - DIN 51 352-1+2 - EN 61 125 A+B+C - IP 48 - IP 280 - IP 306 - IP 307 - IP 335 - ISO 6617-1+2 - ISO 7624 - JIS C2101
<b>16-1579</b>	<b>Temperature Measuring Tube for dry-heat bath with tubeØ 26</b> ASTM D 2440 - DIN 51 373 - DIN 51 538 - DIN 51 352-1+2 - EN 61 125 A+B+C - IP 48 - IP 280 - IP 306 - IP 307 - IP 335 - ISO 6617-1+2 - ISO 7624 - JIS C2101
<b>16-1532</b>	<b>Stopper, Silicone (27/30 / bored Ø 6 mm)</b>
<b>16-0486</b>	<b>Thermometer IP 22C</b> Range: +195 to +205 : 0.1 °C Length: 300 mm, Immersion: 100 mm, Ø 6.5 mm
<b>16-0565</b>	<b>Flowmeter Unit (1.6-16 l/h)</b> DIN 51 352-1+2 - IP 48 - ISO 6617-1+2
<b>16-0470</b>	<b>Soap Bubble Meter (150:1 ml)</b> DIN 51 352-1+2 - IP 48 - ISO 6617-1+2
<b>25-0607</b>	<b>Heating Element HD 2000 W, 230 V</b>
<b>25-0608</b>	<b>Heating Element HD 1000 W, 115 V</b>

### Order Guideline

Minimum equipment: 1x 15-1502 or 1x 16-1569 or 1x 16-1577, 1x 16-1504, 1x 16-0443  
 Additional requirements: To combine methods which need BAM-Apparatus  
 16-1500 & 16-1502, you may modify 16-1502 with  
 the following accessories:  
 2x 11-0093, 2x 16-0563, 1x 16-0469  
 (instead of ordering two baths)