

## Oxidation Stability of Mineral Oils (BAM) - ISO 6617 pt.1

ISO 6617-1, DIN 51352-1 (obs.)

**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

## Main Unit

### 16-1502 8-Place Liquid Bath - Oxidation Apparatus "BAM-250"

DIN 51 352-1+2 - IP 48 - ISO 6617-1+2

Consisting of:

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.

Attention! Drain cock, glassware and catalyst matter are not included.

Power supply: 230 V, 50/60 Hz

### 16-1503 8-Place Liquid Bath - Oxidation Apparatus "BAM-250"

Like 16-1502 but:

Power supply: 115 V, 50/60 Hz

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

<b>16-1522</b>	<p><b>8-Place Dry-Heat Bath - Oxidation Apparatus "BAM-250"</b>  <b>Tube Ø 28</b>  DIN 51 352-1+2 - ISO 6617-1+2</p> <p><u>Consisting of:</u></p> <p><u>Dry Heat Bath (without accessories):</u>  stainless steel dry-heat bath (ambient temperature up to +205°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>
<b>16-1523</b>	<p><b>8-Place Dry-Heat Bath - Oxidation Apparatus "BAM-250"</b>  <b>Tube Ø 28</b>  <u>Like 16-1522 but:</u>  Power supply: 115 V, 50/60 Hz</p>
<b>16-1564</b>	<p><b>12-Place Dry-Heat Bath - Oxidation Apparatus "BAM-250"</b>  <b>Tube Ø 28</b>  DIN 51 352-1+2 - ISO 6617-1+2</p> <p><u>Like 16-1522 but:</u>  with 12-place bath, without protective screen for bath.</p> <p>Power supply: 230 V, 50/60 Hz</p>
<b>16-1565</b>	<p><b>12-Place Dry-Heat Bath - Oxidation Apparatus "BAM-250"</b>  <b>Tube Ø 28</b>  <u>Like 16-1564 but:</u>  Power supply: 115 V, 50/60 Hz</p>
<b>16-1507</b>	<p><b>Test Kit Type "DIN 51 352" for 8 test places</b>  DIN 51 352-1+2 - ISO 6617-1+2</p> <p><u>Consisting of:</u>  8 oxidation tubes, complete with (ø 28 x 250 mm, NS 29/32)  (each tube with 2 removable hose connectors)  8 silicon connection hoses, 1m each  2 o-ring sets (pack of 10 pcs.)</p>

## Options & Accessories

<b>16-1558</b>	<p><b>Soap Bubble Meter Set 150 ml</b>  DIN 51 352-1+2 - ISO 6617-1+2</p>
<b>21-0697</b>	<p><b>Digital Stop Watch</b>  <u>Consisting of:</u>  7-digit LC display, max. 10 hours countdown with 1/100 sec. precision, Lithium battery</p> <ul style="list-style-type: none"> <li>• quartz-controlled</li> <li>• water resistant</li> <li>• memory function</li> <li>• calendar</li> </ul>



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 (G<sup>3</sup>/<sub>4</sub>"**

**Spare Parts**

16-1542

**Oxidation Tube, complete**

DIN 51 352-1+2 - ISO 6617-1+2

16-1554

**O-ring, 27 x 4.5 mm, 10 pcs.)**

DIN 51 352-1+2 - DIN 51 373 - DIN 51 538 - ISO 6617-1+2

16-1531

**Temperature Measuring Tube**

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

16-1532

**Stopper, Silicone (27/30 / bored Ø 6 mm)**

16-0486

**Thermometer IP 22C**

Range: +195 to +205 : 0.1 °C  
Length: 300 mm, Immersion: 100 mm, Ø 6.5 mm

16-0565

**Flowmeter Unit (1.6-16 l/h)**

DIN 51 352-1+2 - IP 48 - ISO 6617-1+2

16-0470

**Soap Bubble Meter (150:1 ml)**

DIN 51 352-1+2 - IP 48 - ISO 6617-1+2

25-0607

**Heating Element HD 2000 W, 230 V**

### Order Guideline

Minimum equipment: 1x 16-1502 or 1x 16-1522 or 1x 16-1564 or  
1x 16-1507

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)