

## Oxidation Stability of Mineral Oils (BAM) - EN 61 125

EN 61125, IEC 1125 (obs.), IEC 61125

**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 Spicemens

### Main Unit

**16-1500** **8-Place Liquid Bath - Oxidation Apparatus "BAM-200"**  
ASTM D 2440 - DIN 51 538 - DIN 51 373 - EN 61 125 A+B+C -  
IP 280 - IP 306 - IP 307 - IP 335 - ISO 7624 - JIS C2101

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 200 °C +/-0.02 °C, with digital display, stirrer, low level and temperature excess protection, thermometer IP 41C, +98 ... +152:0.2 °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 0.08 ... 2 l/h. with works certificate.

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

Power supply: 230 V, 50/60 Hz

**16-1501** **8-Place Liquid Bath - Oxidation Apparatus "BAM-200"**  
Like 16-1500 but:  
Power supply: 115 V, 50/60 Hz

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

<b>16-1566</b>	<p><b>8-Place Dry-Heat Bath - Oxidation Apparatus "BAM-200"</b>  <b>Tube Ø 26</b>  ASTM D 2440 - DIN 51 538 - EN 61 125 A+B+C - IP 280 -  IP 306 - IP 307 - IP 335 - ISO 7624 - JIS C2101</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 0.08 ... 2 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>16-1568</b>	<p><b>8-Place Dry-Heat Bath - Oxidation Apparatus "BAM-200"</b>  <b>Tube Ø 26</b>  Like 16-1566 but:  Power supply: 115 V, 50/60 Hz</p> <hr/>
<b>16-1573</b>	<p><b>12-Place Dry-Heat Bath - Oxidation Apparatus "BAM-200"</b>  <b>Tube Ø 26</b>  ASTM D 2440 - DIN 51 538 - EN 61 125 A+B+C - IP 280 -  IP 306 - IP 307 - IP 335 - ISO 7624 - JIS C2101</p> <p><u>Like 16-1566 but:</u>  with 12-place bath and without protective screen for bath.</p> <p>Power supply: 230 V, 50/60 Hz</p>
<b>16-1574</b>	<p><b>12-Place Dry-Heat Bath - Oxidation Apparatus "BAM-200"</b>  <b>Tube Ø 26</b>  <u>Like 16-1573 but:</u>  Power supply: 115 V, 50/60 Hz</p> <hr/>
<b>16-1504</b>	<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>
<b>16-0443</b>	<p><b>Metal Test Specimens - Code: 409 C</b>  <b>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

16-1557	<p><b>Soap Bubble Meter Set 10 ml</b> ASTM D 2440 - DIN 51 538 - DIN 51 373 - EN 61 125 A+B+C - IP 280 - IP 306 - IP 307 - IP 335 - ISO 7624 - JIS C2101</p>
21-0697	<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>
17-0802	<p><b>Circulation Air Oven</b> <u>Consisting of:</u> thermostatically-controlled, includes of 2-hours &amp; permanent time switch, thermometer for temperature inspection and perforated intermediate bottom.</p> <p><u>Important:</u> Not explosion protected!</p> <p><u>Technical Data:</u> 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</p> <p>Power supply: 230 V, 50/60 Hz</p>
25-0604	<p><b>Cooling Coil</b> ASTM 2440 - DIN 51 538 - DIN 51 373 - EN 61 125 A+B+C - IP 280 - IP 306 - IP 307 - IP 335 - ISO 7624 - JIS C2101</p>
16-0468	<p><b>Insulated Ingot</b> DIN 51 373 - EN 61 125 A+B+C - IP 280 - IP 306 - IP 307 - IP 335 - ISO 7624 - ISO 7624</p>
12-0683	<p><b>Thermometer ASTM 9C / IP 15C</b> Range: -5 to +110 : 0.5 °C Length: 290 mm, Immersion: 57 mm, Ø 6.5 mm</p>
11-0091	<p><b>Thermometer ASTM 40C / IP 80C</b> Range: +72 to +126 : 0.2 °C Length: 395 mm, Immersion: 100 mm, Ø 7 mm</p>
16-0598	<p><b>Wire Coiling Mandrel</b> ASTM D 943 / JIS K2514 (BS 4388) - ASTM D 4310 / IP 157 / JIS C2101 - ISO 4263 pt.1-4 - DIN 51 587</p>
13-0727	<b>Silicon Carbide Grit Paper, 100 grit (P100), 10 sheets</b>
13-0719	<b>Silicon Carbide Grit Paper, 150 grit (P150), 10 sheets</b>
13-0720	<b>Silicon Carbide Grit Paper, 240 grit (P280), 10 sheets</b>
13-0721	<b>Silicon Carbide Grit Paper, 360 grit (P600), 10 sheets</b>
13-0722	<b>Silicon Carbide Grit Paper, 500 grit (P1000), 10 sheets</b>
13-0723	<b>Silicon Carbide Grit Paper, 600 grit (P1200), 10 sheets</b>
16-0720	<b>Drain Cock for thermostatic baths (G¼")</b>

## Spare Parts

<b>16-1539</b>	<b>Oxidation Tube, complete</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>16-1553</b>	<b>O-ring (25 x 5.0 mm, 10 pcs.)</b> ASTM D 2440 - EN 61 125 A+B+C - IP 48 - IP 280 - IP 306 - IP 307 - IP 335 - ISO 7624 - JIS C2101
<b>16-1556</b>	<b>O-ring for temperature tube, 1 pc</b> 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 tube Ø 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>11-0093</b>	<b>Thermometer ASTM 41C / IP 81C</b> Range: +98 to +152 : 0.2 °C Length: 395 mm, Immersion: 100 mm, Ø 7 mm
<b>16-0563</b>	<b>Flowmeter Unit (0.08-2.0 l/h)</b> ASTM 2440 - DIN 51 538 - DIN 51 373 - EN 61 125 A+B+C - IP 280 - IP 306 - IP 307 - IP 335 - ISO 7624 - JIS C2101
<b>16-0469</b>	<b>Soap Bubble Meter (10:0.5 ml)</b> ASTM 2440 - DIN 51 538 - DIN 51 373 - EN 61 125 A+B+C - IP 280 - IP 306 - IP 307 - IP 335 - ISO 7624 - JIS C2101
<b>25-0602</b>	<b>Heating Element DP, 2000 W, 230 V</b>
<b>25-0603</b>	<b>Heating Element DP, 1000 W, 115 V</b>

## Order Guideline

Minimum equipment:	1x 16-1500 or 1x 16-1566 or 1x 16-1573, 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)