

Oxidation Stability of Mineral Oils (BAM) - ASTM D 2440

ASTM D 2440

- 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

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 <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 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. <u>Attention!</u> 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" <u>Like 16-1500 but:</u> Power supply: 115 V, 50/60 Hz
16-0720	Drain Cock for thermostatic baths (G¼")

16-1566	8-Place Dry-Heat Bath - Oxidation Apparatus "BAM-200"
	<p>Tube Ø 26 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>
16-1568	8-Place Dry-Heat Bath - Oxidation Apparatus "BAM-200"
	<p>Tube Ø 26 Like 16-1566 but: Power supply: 115 V, 50/60 Hz</p> <hr/>
16-1573	12-Place Dry-Heat Bath - Oxidation Apparatus "BAM-200"
	<p>Tube Ø 26 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>
16-1574	12-Place Dry-Heat Bath - Oxidation Apparatus "BAM-200"
	<p>Tube Ø 26 <u>Like 16-1573 but:</u> Power supply: 115 V, 50/60 Hz</p>
16-1504	Test Kit Type "IP 280" for 8 test places
	<p>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	Metal Test Specimens - Code: 409 C
	<p>for Oxidation of Mineral Oil, (BAM) 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	Soap Bubble Meter Set 10 ml 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
21-0697	Digital Stop Watch <u>Consisting of:</u> 7-digit LC display, max. 10 hours countdown with 1/100 sec. precision, Lithium battery <ul style="list-style-type: none"> • quartz-controlled • water resistant • memory function • calendar 
17-0802	Circulation Air Oven <u>Consisting of:</u> thermostatically-controlled, includes of 2-hours & permanent time switch, thermometer for temperature inspection and perforated intermediate bottom. <u>Important:</u> Not explosion protected! <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 Power supply: 230 V, 50/60 Hz 
25-0604	Cooling Coil 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
16-0598	Wire Coiling Mandrel ASTM D 943 / JIS K2514 (BS 4388) - ASTM D 4310 / IP 157 / JIS C2101 - ISO 4263 pt.1-4 - DIN 51 587
13-0727	Silicon Carbide Grit Paper, 100 grit (P100), 10 sheets
13-0719	Silicon Carbide Grit Paper, 150 grit (P150), 10 sheets
13-0720	Silicon Carbide Grit Paper, 240 grit (P280), 10 sheets
13-0721	Silicon Carbide Grit Paper, 360 grit (P600), 10 sheets
13-0722	Silicon Carbide Grit Paper, 500 grit (P1000), 10 sheets
13-0723	Silicon Carbide Grit Paper, 600 grit (P1200), 10 sheets
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

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)
11-0093	Thermometer ASTM 41C / IP 81C Range: +98 to +152 : 0.2 °C Length: 395 mm, Immersion: 100 mm, Ø 7 mm
16-0563	Flowmeter Unit (0.08-2.0 l/h) 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
16-0469	Soap Bubble Meter (10:0.5 ml) 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
25-0602	Heating Element DP, 2000 W, 230 V
25-0603	Heating Element DP, 1000 W, 115 V

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)