

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")

16-1522 8-Place Dry-Heat Bath - Oxidation Apparatus "BAM-250"

Tube Ø 28
DIN 51 352-1+2 - ISO 6617-1+2

Consisting of:

Dry Heat Bath (without accessories):

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.

2 Flowmeter Units:

flowmeter unit (flow rates of 1.6 ... 16 l/h, 4-place), with calibration certificate and needle valve.

Supplied with:

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).

Attention! Glassware and catalyst matter are not included.

Power supply: 230 V, 50/60 Hz

16-1523 8-Place Dry-Heat Bath - Oxidation Apparatus "BAM-250"

Tube Ø 28
Like 16-1522 but:
Power supply: 115 V, 50/60 Hz

16-1564 12-Place Dry-Heat Bath - Oxidation Apparatus "BAM-250"

Tube Ø 28
DIN 51 352-1+2 - ISO 6617-1+2

Like 16-1522 but:

with 12-place bath, without protective screen for bath.

Power supply: 230 V, 50/60 Hz

16-1565 12-Place Dry-Heat Bath - Oxidation Apparatus "BAM-250"

Tube Ø 28
Like 16-1564 but:
Power supply: 115 V, 50/60 Hz

16-1507 Test Kit Type "DIN 51 352" for 8 test places

DIN 51 352-1+2 - ISO 6617-1+2
Consisting of:
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.)

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 (G³/₄"

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)