

DEMULSIBILITY AND FOAMING

FOAMING

ASTM D892 (I, II, III) IP 146 ISO 6247 DIN 51566 FOAMING CHARACTERISTICS OF LUBRICATING OILS

This test method covers the determination of the foaming characteristics of lubricating oils at 24°C (75.2°F) and 93.5°C (200.3°F). Means of empirically rating the foaming tendency and the stability of the foam are described

ASTM D6082 (IV) HIGH TEMPERATURE FOAMING CHARACTERISTICS OF LUBRICATING OILS

This test method describes the procedure for determining the foaming characteristics of lubricating oils (specifically transmission fluid and motor oil) at 150°C (302°F)

Consists of a tank fitted with cover with two hole, which allows two cylinders to get through, and a cooling coil, leakage protection vessel made of tempered glass supplied with cork disk supporting and stainless steel base. Stainless steel control box on the cover, temperature controlled by digital thermoregulator PID with PT100 probe class A and overtemperature alarm, stainless steel heater, cooling coil for improved control near to ambient temperature, motor stirrer, safety internal level for low liquid with warning lamp. Plate base painted with anti-acid epoxy products with rack for 2 flowmeters 25-250 ml/min. Complete with: 2x flowmeters, 2x graduated cylinders, 2x diffuser ball-shape, 2x rubber plug and diffuser tubes.

Technical specifications:

- Temperature: from ambient to +150°C (302°F)
- Stability: ±0.1°C
- Capacity: about 23 l
- Power supply: 230V ±10% 50/60Hz
- Power: 2200W

1900/2 FOAMING BATH LIQUID MODEL (2 POSITIONS)

Consists of two tanks, one for working 24°C (75.2°F) and one for working up to 150°C (302°F), fitted with cover with two hole each, which allows two cylinders to get through, leakage protection vessel made of tempered glass supplied with cork disk supporting and stainless steel base. Stainless steel control box on the cover, temperature controlled by digital thermoregulator PID with PT100 probe class A and overtemperature alarm, stainless steel heater, cooling coil for improved control near to ambient temperature, motor stirrer, safety internal level for low liquid with warning lamp. Plate base painted with anti-acid epoxy products, rack for 4 flowmeters 25-250 ml/min. Complete with: 4x flowmeters, 4x graduated cylinders, 4x diffuser ball-shape, 4x rubber plug and diffuser tubes.

Technical specifications:

- Temperature: from ambient to +150°C (302°F)
- Stability: ±0.1°C
- Capacity: about 23+23 l
- Power supply: 230V ±10% 50/60Hz
- Power: 1200+2200 W
- Dimensions: 76x50x77 cm
- Weight: 65 kg.

1900/4 FOAMING BATH LIQUID MODEL (4 POSITIONS)

CONSUMABLES x 2 YEARS

- | | |
|---------|-------------------------------------------|
| 15-1904 | GRADUATED CYLINDER, 1000 ml. x2 |
| 15-1903 | DIFFUSER BALL-SHAPE x2
Made of alundum |

SPARE PARTS

- | | |
|-------------|-------------------------------|
| 15-1902 | DIFFUSER TUBE, pack of 2 pcs |
| 15-1905 | RUBBER STOPPER, pack of 2 pcs |
| 15-1906 | FLOWMETER |
| 14-0002 | PROBE PT100A |
| 11-0012/19 | HEATER (for bath 24°C) |
| 11-0016 | HEATER |
| 15-0003/120 | LEVEL SWITCH |
| 16-0005 | DIGITAL THERMOREGULATOR |
| 15-0015 | STATIC RELAY |
| 15-0004 | BIPOLAR GREEN SWITCH |
| 15-0005 | BIPOLAR YELLOW SWITCH |
| 12-0001 | MOTOR STIRRER |

Consisting of stainless steel tank 2 positions with system for connection of an external chilled mixture; insulate interspace with frontal tempered window and light. Temperature controlled by a digital thermoregulator PID with PT100 probe class A and overtemperature alarm, rack for 2 flowmeters 25-250 ml/min. Complete with: 2x flowmeters, 2x graduate cylinders, 2x diffuser balls-shape, 2x rubber plug and diffuser tubes.

Technical specifications:

- Temperature: from ambient to +150°C (302°F)
- Stability: ±0,5°C
- Power supply: 230V 50/60Hz
- Power: 2200W

1900/AIR/2 FOAMING BATH AIR MODEL (2 POSITIONS)

Consisting of 2 stainless steel tanks, one for working 24°C (75,2°F) with system for connection of an external chilled mixture and one for working up to 150°C (302°F), each with 2 positions; insulate interspace with frontal tempered window and light. Temperature controlled by a digital thermoregulator PID with PT100 probe class A and overtemperature alarm, rack for 4 flowmeters 25-250 ml/min.

Complete with: 4 x flowmeters, 4 x graduate cylinders, 4 x diffuser balls-shape, 4 x rubber plug and diffuser tubes.

Technical specifications:

- Temperature: from ambient to +150°C (302°F)
- Stability: ±0,5°C
- Power supply: 230V 50/60Hz
- Power: 2200W

1900/AIR/4 FOAMING BATH AIR MODEL (4 POSITIONS)

ACCESSORIES ON REQUEST

- | | |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10-1901 | CERTIFIED DIFFUSER BALL-SHAPE
Made of Alundum |
| 10-1904 | DIFFUSER CYLINDRICAL-SHAPE
Made of stainless steel |
| 10-1904/C | CERTIFIED DIFFUSER CYLINDRICAL-SHAPE
Made of stainless steel |
| 10-1905 | DRYING TOWER, 300 mm
20-mm layer of cotton, 180-mm layer of indicating desiccant, 20-mm layer of cotton |
| 10-1905/V | EMPTY DRYING TOWER, 300 mm |
| 10-1906 | AIR VOLUME METER
1-60 l/h |
| 10-1907 | GAS VOLUME METER
5-360 l/h |
| 10-1908 | DIFFUSER TEST APPARATUS
For maximum pore diameter and permeability diffusers.
Consisting of: U-tube manometer, gas volume meter 5-360 l/h, 500 ml vacuum flask, 250 ml cylinder, needle valve |
| 2460/2180 | PUMP |
| 10-0332 | DIGITAL STOPWATCH
7 digit LCD, max.10 hours, 1/100 sec, digit h=8 mm |
| T-AS12C | THERMOMETER ASTM 12C IP 64C |
| T-AS41C | THERMOMETER ASTM 41C IP 81C |

DEMULSIBILITY AND FOAMING



1900/4

2014



1900/AIR/4

2016

COOLANTS

ASTM D1881 FOAMING TENDENCIES OF ENGINE COOLANTS IN GLASSWARE

This test method covers a simple glassware test for evaluating the tendency of engine coolants to foam under laboratory-controlled-conditions of aeration and temperature.

Consisting of a small electric heater, borosilicate glass 4 l, 500 ml graduated cylinder with metal ballast on the bottom, a porous stone with a diffuser ball-shape, a 3-way stopcock, blowing pump and flowmeter 60 l/h

Technical specifications:

- Temperature: from ambient to 100°C (212°F)
- Stability: $\pm 1^\circ\text{C}$
- Power supply: 230V $\pm 10\%$ 50/60Hz
- Power: 700W

1915 COOLANTS FOAMING APPARATUS



1915

2013

ACCESSORIES ON REQUEST

- | | |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10-1901 | CERTIFIED DIFFUSER BALL-SHAPE
Made of Alundum |
| 10-1905 | DRYING TOWER, 300 mm
20-mm layer of cotton, 180-mm layer of
indicating desiccant, 20-mm layer of cotton |
| 10-1905/V | EMPTY DRYING TOWER, 300 mm |
| 10-1908 | DIFFUSER TEST APPARATUS
For maximum pore diameter and permeability
diffusers.
Consisting of: U-tube manometer, gas volume
meter 5-360 l/h, 500 ml vacuum flask, 250 ml
cylinder, needle valve |
| 10-0332 | DIGITAL STOPWATCH
7 digit LCD, max.10 hours, 1/100 sec,
digit h=8 mm |
| T-AS1C | THERMOMETER ASTM 1C |

CONSUMABLES x 2 YEARS

- | | |
|-----------|-------------------------------------------|
| 15-1915/C | GRADUATED CYLINDER, 500 ml. x2 |
| 15-1903 | DIFFUSER BALL-SHAPE x2
Made of alundum |

SPARE PARTS

- | | |
|-----------|---------------------------------|
| 15-1902 | DIFFUSER TUBE, pack of 2 pcs |
| 15-1915/F | FLOWMETER |
| 15-1915/T | SILICONE STOPPER, pack of 2 pcs |
| 15-1915/J | JAR, 4 l |
| 15-1915/R | 3-WAY STOPCOCKE |