

Density, Relative Density or Specific Gravity, API Gravity - Bath for Density at +150 °C

ASTM D 70, ASTM D 71, ASTM D 287, ASTM D 1298, ASTM D 1481, ASTM D 2111, ASTM E 100, ISO 3675, ISO 3838, DIN 1995 (obs.), DIN 51757, DIN 52004, IP 160, IP 189, IP 190, JIS K2207, JIS K2249, JIS K2265, BS 4699 (obs.), BS 4714 (obs.)

Product group(s): Bitumen, Density & Gravity

User group(s): Biodiesel, Biofuel, Bitumen, Density, Diesel, Gravity

Scope: This test method covers the determination of the specific gravity and density of semi-solid bituminous materials, asphalt cements, and soft tar pitches by use of a pycnometer.

- 4-place full-view borosilicate bath
- for determination of density, specific & API gravity
- up to +150 °C max.



Tempering Bath for the determination of densities at 150 °C max.

More details are mentioned in the "Order Number" section

Main Unit

26-0017 **Tempering Bath for determinations at +150 °C max.**
by pycnometer, hydrometer or viscometer

Consisting of:

Borosilicate glass bath jar with cooling-coil.
Thermostat with digital display, splash-proof keypad, integrated heater, pump, RS232-interface, over-temperature- & low-level-protection

Supplied with:

1 bath insert (heat protected stainless steel)
with 4 openings (Ø 67 mm) and clamps
4 pycnometer adapter rings (inside Ø 50.5 mm)
4 hydrometer cylinders (Ø 65 x 420 mm)
5 lids (20-0024) for the unused openings
1 leakage protection vessel complete with temperature insulation

Note!

Bath is suitable for hydrometer with an overall length of maximal 400 mm or viscometers.
Measurements at temperatures lower than +25 °C require a counter-cooling device, e.g. Recirculating Cooler 25-0368 or 25-0373.

Power supply: 230 V, 50/60 Hz

26-0018 **Tempering Bath for determinations at +150 °C max.**
 Like 26-0017 but:
 Power supply: 115 V, 50/60 Hz

Options & Accessories

25-1200 **Circulation Cooler (-20/+40)**
 For cooling of instruments without circulation pump (external tempering).
 Economical solution for cooling without tap water.



Consisting of:
 Cooler with tank, digital display, splash-proof keypad, pump, RS232-interface, liquid level indication, over-/low-temperature & low-level protection.

Technical Data:
 Working range: -20 to +40 °C (at +5 to +40 °C ambient temp.)
 Display / Resolution: LED / 0.1 °C
 Cooling capacity: 600 W at +20 °C
 Pump-Pressure capacity: 23 l/min, 1 bar (14.5 psi)
 Volume: 5.5 ... 8 l
 Interface: RS232 (LIMS capability)
 Sockets for: hose (Ø 8 / 12 mm)
 Dimensions / Weight: 32 x 50 x 60 cm (WxDxH), 48 kg
 Power supply: 230 V, 50 Hz, 8 A, EU-plug

25-1201 **Circulation Cooler (-20/+40)**
 Like 25-1200 but:
 Power supply: 115 V, 60 Hz

Spare Parts

26-0014 **Measuring Cylinder (1000 : 10 ml)**
 borosilicate glass with plastic stand, ID 60 mm x H 420 mm

26-0026 **Adaptor Ring**
 50.5 mm Ø for adoption of pycnometer holders in tempering baths

13-0715 **Thermometer ASTM 12C / IP 64C**
 Range: -20 to +102 : 0.2 °C
 Length: 420 mm, Immersion: total, Ø 7 mm

13-0716 **Thermometer ASTM 12C / IP 64C**
 Range: -20 to +102 : 0.2 °C (officially certified)

13-0717 **Thermometer ASTM 12F / IP 64F**
 Range: -5 to +215 : 0.5 °C
 Length: 420 mm, Immersion: total, Ø 7 mm

13-0718 **Thermometer ASTM 12F / IP 64F**
 Range: -5 to +215 : 0.5 °C (officially certified)

21-0601 **Thermometer ASTM 17C**
 Range: +19 to +27 : 0.1 °C
 Length: 275 mm, Immersion: total, Ø 6.5 mm

21-0607 **Thermometer ASTM 17C**
 Range: +19 to +27 : 0.1 °C (officially certified)

21-0621 **Thermometer ASTM 17F**
 Range: +66 to +80 : 0.2 °F
 Length: 275 mm, Immersion: total, Ø 6.5 mm

21-0627 **Thermometer ASTM 17F**
 Range: +66 to +80 : 0.2 °F (officially certified)

21-0606	Thermometer ASTM 22C / IP 24C Range: +95 to +103 : 0.1 °C Length: 275 mm, Immersion: total, Ø 7 mm
21-0612	Thermometer ASTM 22C / IP 24C Range: +95 to +103 : 0.1 °C (officially certified)
21-0626	Thermometer ASTM 22F / IP 24F Range: +204 to +218 : 0.2 °F Length: 275 mm, Immersion: total, Ø 7 mm
21-0632	Thermometer ASTM 22F / IP 24F Range: +204 to +218 : 0.2 °F (officially certified)
10-0385	Thermometer ASTM 63C Range: -8 to +32 : 0.1 °C Length: 379 mm, Immersion: total, Ø 7.5 mm
10-0386	Thermometer ASTM 63C Range: -8 to +32 : 0.1 °C (officially certified)
10-0387	Thermometer ASTM 63F Range: +18 to +89 : 0.2 °F Length: 379 mm, Immersion: total, Ø 7.5 mm
10-0388	Thermometer ASTM 63F Range: +18 to +89 : 0.2 °F (officially certified)
26-0036	Thermometer IP 39C Range: -1 to +38 : 0.1 °C Length: 440 mm, Immersion: total, Ø 6.5 mm
26-0037	Thermometer IP 39C Range: -1 to +38 : 0.1 °C (officially certified)
26-0038	Thermometer IP 39F Range: +30 to +100 : 0.2 °C Length: 440 mm, Immersion: total, Ø 6.5 mm
26-0039	Thermometer IP 39F Range: +30 to +100 : 0.2 °C (officially certified)
11-0022	Thermometer Range: 0 to +105 : 0.5 °C
10-0383	Thermometer DIN 12775 - E0,1/0/50 Range: 0 to +50 : 0.1 °C Length: 220 mm, Immersion: --, Ø 8 mm
10-0384	Thermometer DIN 12775 - E0,1/0/50 Range: 0 to +50 : 0.1 °C (officially certified)

Order Guideline

Minimum equipment:	1x 26-0017
Spares (approx. 1 year):	26-0014, 26-0026, Thermometer
Additional requirements:	Hydrometers and Pycnometers