

## 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 (tap water replacement, external cooling)**



For cooling of instruments without circulation pump (e.g. Peltier-cooling).

Consisting of:  
Cooler with tank, digital display, splash-proof keypad, integrated pump, 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, 1000 mbar  
Safety class / Tank fluid: 1 / NFL (Non Flammable Liquids only)  
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, EU-plug

**25-1201 Circulation Cooler (tap water replacement, external cooling)**

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)

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