

## Gum Content Determination by Air Jet Evaporation, to 246 °C (semi-automatic)

ASTM D 381, ISO 6246, DIN 51784, EN 26246 (obs.), FTM 791-3302, IP 131, IP 540, JIS K2261, BS 4348 (obs.)

**Product group(s):** Fuel

**User group(s):** Aviation Fuel, Fuel, Gas Oil, Gasoline, Jet Fuel, Motor Gasoline, Turbine Fuel

**Scope:** Gum content is the residue of substances mainly aircraft fuels and motor gasoline) under investigation which can not be evaporated under test conditions. The gum content is measured in units of mg/100 ml.

The newest requisition for Jet-A1 **ASTM D 1655-06d** allows to test at +240°C with only air in accordance with IP 540.

- highest level of user safety
- digital electronic heating block control
- over-temperature protection



### Jet Evaporation Test Equipment

More details are mentioned in the "Order Number" section

### Technical Data

<u>Temperature Range:</u>	ambient to +246°C
<u>Dimensions (W x D x H):</u>	370 x 370 x 720 mm (height incl. handle)
<u>Weight:</u>	44 kg

## Main Unit

13-2030

### Semi-Automatic Gum Tester Five-Unit Dry-Heat Bath

ASTM D 381 - DIN 51 784 - FTM 791-3302 - IP 131 -  
IP 540 - ISO 6246 - JIS K2261 (BS 4348, EN 26 246)

#### Consisting of:

Housing of stainless steel with strong temperature insulation.  
Safety-Multifunction Head for simultaneous positioning of all 5 pre-adjusted inlet-tubes to pre-heating- or working-position. The handle is in a position where air is not hazardous to operator. 5-place metal heating block. Manual air supply control valve, manometer with preset calibration marks for air-flow at 163°C and 233°C, digital electronic heating block control, over-temperature protection for the block.

#### Supplied with:

10 glass beakers  
1 thermometer  
1 pressure reducer with filter and hose  
1 tong, made of stainless steel

Footprint (W x D): 370 x 370 mm (saves space in fume hood)

Power supply: 230 V, 50/60 Hz

13-2031

### Semi-Automatic Gum Tester Five-Unit Dry-Heat Bath

Power supply: 115 V, 50/60 Hz

## Options & Accessories

<b>13-1249</b>	<b>Air Re-calibration Set for Gum-Test Apparatus</b> Consisting of: - Air Volume Set: flow-meter (range: 1.4 ... 17.6 m <sup>3</sup> /h) with stand - Strainer gauze, pack of 20 - Uniformity Test Set for Air: special adapter and flow-meter - Officially certified thermometer ASTM 3C / IP 73C
<b>13-0043</b>	<b>Rotary Compressor</b> 7 bar, 270 l/min, air outlet R 1/2" thread  Power supply: 3-phase rotary current 400 V, 50 Hz, 2.2 kW
	
<b>13-0044</b>	<b>Rotary Compressor</b> Like 13-0043 but: Power supply: 1-phase rotary current 230 V, 60 Hz, 1.5 kW
<b>13-0023</b>	<b>Thermometer ASTM 3C</b> Range: -5 to +400 : 1 °C Length: 415 mm, Immersion: 76 mm, Ø 6.5 mm
<b>13-0024</b>	<b>Thermometer ASTM 3C</b> Range: -5 to +400 : 1 °C (officially certified)
<b>13-1258</b>	<b>Strainer Gauze, metal, pack of 20</b>

### Spare Parts

<b>13-0022</b>	<b>Beaker, Berzelius, 100 ml, glass, pack of 10</b> Ø 50 x 78mm
<b>13-0039</b>	<b>Heating Element, Power supply: 230 V (for dry heat bath)</b>
<b>13-0032</b>	<b>Heating Element, Power supply: 115 V (for dry heat bath)</b>
<b>13-1256</b>	<b>Conical Air-Outlet (for dry heat bath)</b>

### Order Guideline

Minimum equipment:	Gum Tester
Spares (approx. 1 year):	Beakers, 1 x heating element, 1 x thermometer
Additional requirements:	<u>motor gasoline</u> : air supply