

## Flash-Point with Closed Cup - TAG Method (semi-automatic) ASTM D 56

ASTM D 56, FTM 791-1101, IP 304-1 (obs.), IP 304-2 (obs.), JIS K2265

**Product group(s):** Flash Point, Fuel

**User group(s):** Fuel, Gasoline, Jet Fuel, Kerosene, Mastics, Paint, Regulatory Authorities, Solvent, Turbine Fuel, Varnish

**Scope:** The TAG method describes the flash-point determination of liquids with a viscosity below 5.5 mm<sup>2</sup>/s (cSt) at +40°C (104°F) or below 9.5 mm<sup>2</sup>/s (cSt) at +25°C (77°F) and a flashpoint below +93°C (200°F).

This method can indicate the possible presence of highly volatile and flammable materials in a relatively nonvolatile or nonflammable material.

For example, an abnormally low flash-point on a sample of kerosene can indicate gasoline contamination.



### Flash-Point TAG Test Equipment

to be composed of:

- Flash-Point Tester, TAG Method
- Pipette
- Pre-Regulating Valve

### Technical Data

<u>Temperature range:</u>	+5 to +70 °C (+41 to +158 °F)
<u>Ignition:</u>	gas
<u>Dimensions:</u>	180 x 200 x 205 mm (W x D x H)
<u>Weight:</u>	6 kg

### Main Unit

<b>12-1520</b>	<b>Semi-Automatic Flash-Point Tester, TAG Method</b>
	<u>TAG method:</u> ASTM D 56 - FTM 791-1101 - JIS K2265
	<u>Equilibrium Method (Flash-point):</u> (IP 304-1)
	<u>Equilibrium Method (Flash/no Flash):</u> (IP 304-2)
	<u>Consisting of:</u> water bath with regulated electric heater and cooling coil for connection of an external cooler
	<u>Supplied with:</u> 1 cup 1 cover 2 thermometers ASTM 57C 2 thermometers ASTM 9C/IP 15C
	<u>Note:</u> pre-regulating valve for gas is recommended.
	Power supply: 230 V, 50/60 Hz, 600 W
<b>12-1521</b>	<b>Semi-Automatic Flash-Point Tester, TAG Method</b>
	Like 12-1520 but: Power supply: 110 V, 50/60 Hz, 600 W (115 V available upon request)

### Options & Accessories

<b>12-0052</b>	<b>Pipette, 25 ml</b>
<b>12-0629</b>	<b>Pre-Regulating Valve</b> for gas supply with hose adapter, suitable for all types of burning gases

50-5172	Clip, Hoffmann-type (for hose flow rate regulation)
50-9114	Reference Liquid, Flash-Point - ASTM D 56 (TAG) Flash Point: approx. +47°C Content: 255 ml <u>Note:</u> Requires special shipment as hazardous goods.
12-1755	Digital Precision Barometer, 300...1100 mbar : 2 mbar
12-1751	Case for barometer
12-1752	Certificate for barometer - 5 measuring points
12-1753	Certificate for barometer - 10 measuring points
12-1754	Battery for barometer 9-V-Block

### Spare Parts

12-0569	Thermometer ASTM 57C Range: -20 to +50 : 0.5 °C Length: 287 mm, Immersion: 57 mm, Ø 6.5 mm
12-0579	Thermometer ASTM 57C Range: -20 to +50 : 0.5 °C (officially certified)
12-0570	Thermometer ASTM 57F Range: -4 to +122 : 1 °F Length: 287 mm, Immersion: 57 mm, Ø 6.5 mm
12-0580	Thermometer ASTM 57F Range: -4 to +122 : 1 °F (officially certified)
12-0683	Thermometer ASTM 9C / IP 15C Range: -5 to +110 : 0.5 °C Length: 290 mm, Immersion: 57 mm, Ø 6.5 mm
12-0689	Thermometer ASTM 9C / IP 15C Range: -5 to +110 : 0.5 °C (officially certified)
12-0684	Thermometer ASTM 9F / IP 15F Range: +20 to +230 : 1 °F Length: 290 mm, Immersion: 57 mm, Ø 6.5 mm
12-0690	Thermometer ASTM 9F / IP 15F Range: +20 to +230 : 1 °F (officially certified)
12-1526	Thermometer Collar, Ø 12 mm
12-1286	Thermometer Depth Gauge
12-1524	Cup "TAG"
12-1525	Cover "TAG" with gas igniter
12-1528	Heater, 230 V
12-1529	Heater, 115 V

### Order Guideline

Minimum equipment:  
Spares (approx. 1 year):  
Additional requirements:

1 each: 12-1520, 12-0629, 12-0052  
Thermometer  
gas supply, cryostat