

## Flash- and Fire-Point with Open Cup - Cleveland Method (manual)

ASTM D 92, ISO 2592, DIN 51376 (obs.), EN 22592 (obs.), FTM 791-1103, IP 36, JIS K2265-4, NF T60-118 (obs.), BS 4689 (obs.), Superpave®

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

**User group(s):** Bitumen, Engine Oil, Hydraulic Fluid, Insulating Oil, Jet Lube, Lube Oil, Power Plant, Regulatory Authorities, Turbine Oil

**Scope:** This flash-point and fire-point test method measures the tendency of a test specimen to form a flammable mixture with air.

Suitable for viscous materials having a flash-point between +79°C (175°F) and +400°C (752°F) except fuel oils.

Used to define the hazards of flammable and combustible materials used in shipping and safety regulations.



### Flash- and Fire-Point Cleveland Test Equipment

to be composed of:

- Manual Flash- & Fire-Point Tester, Cleveland Method
- Pre-Regulating Valve

### Technical Data

<u>Temperature range:</u>	+79 to +400 °C (+175 to +752 °F)
<u>Ignition:</u>	gas
<u>Dimensions:</u>	27 x 18 x 37 cm (W x D x H)
<u>Weight:</u>	5.5 kg

### Main Unit

<b>12-0701</b>	<p><b>Manual Flash- &amp; Fire-Point Tester, Cleveland Method</b>                  Petroleum Products (except fuel oil):                  ASTM D 92 - JIS K2265-4 - AASHTO T48 - FTM 791-1103 - IP 36 (BS 4689) - ISO 2592 (EN 22 592, DIN 51 376, NF T60-118)</p> <p><u>Binder, Petroleum Products:</u>                  Superpave® (AASHTO T48, ASTM D 92)</p> <p><u>Consisting of:</u>                  special tripod stand, heating collar, insulating board, gas ignition device with control valve, hose connection, universal gas burner, thermometer holder</p> <p><u>Supplied with:</u>                  1 cup with heat resistant handle                  1 thermometer ASTM 11C/IP 28C</p>
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### Options & Accessories

<b>12-0710</b>	<b>Draft Deflector - CLA</b>
<b>12-0629</b>	<b>Pre-Regulating Valve</b> for gas supply with hose adapter, suitable for all types of burning gases
<b>50-9111</b>	<b>Reference Liquid - Flash-Point - Cleveland</b> ASTM D 92 Certified Value: +265 °C Content: 250 ml - Lubricant

## Spare Parts

12-0751	<b>Thermometer ASTM 11C / IP 28C</b> Range: -6 to +400 : 2 °C Length: 310 mm, Immersion: 25 mm, Ø 7 mm
12-0752	<b>Thermometer ASTM 11C / IP 28C</b> Range: -6 to +400 : 2 °C (officially certified)
12-0753	<b>Thermometer ASTM 11F / IP 28F</b> Range: +20 to +760 : 5 °F Length: 310 mm, Immersion: 25 mm, Ø 7 mm
12-0754	<b>Thermometer ASTM 11F / IP 28F</b> Range: +20 to +760 : 5 °F (officially certified)
11-0110	<b>Universal Gas Burner</b> for town gas (<800°C), butane, propane & natural gases (<1150°C)
12-0755	<b>Heating Collar, made of brass</b>
12-0756	<b>Insulating Board with center hole, made of ceramics</b>
12-2734	<b>Ignition Device with control valve</b>
12-5750	<b>Standard Cup "CL" with heat resistant handle (up to 250°C),</b> approx. 70 ml with filling mark, brass



### Order Guideline

Minimum equipment:	1x 12-0701, 1x 12-0629
Spares (approx. 1 year):	Thermometer
Additional requirements:	Gas supply