

## **Flash- & Fire-Point with Open Cup Cleveland - CL 1 > Replaced by 12-2730**

**DISCONTIUED - Spare Parts only!**

ASTM D 92, ISO 2592, DIN 51376 (obs.), EN 22592 (obs.), FTM 791-1103, IP 36, JIS K2265, NF T60-118 (obs.), AASHTO T48 (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:

- **Flash- & Fire-Point Tester - CL 1**
- **Pre-Regulating Valve**

### **Technical Data**

<u>Temperature range:</u>	approx. +79 to +400 °C (+175 to +752 °F)
<u>Ignition:</u>	gas
<u>Dimensions:</u>	40 x 30 x 40 cm (W x D x H)
<u>Weight:</u>	10 kg

## **Main Unit**

**12-0730**

### **CL 1 - Semi-Automatic Flash- & Fire-Point Tester Cleveland Method**

Petroleum Products (except fuel oil)

ASTM D 92 - JIS K2265 - AASHTO T48 -FTM 791-1103  
IP 36 (BS 4689) - ISO 2592 (EN 22 592, DIN 51 376,  
NF T60-118)

Binder, Petroleum Products

Superpave® (AASHTO T48, ASTM D 92)

Consisting of:

stainless steel housing, electric heater, electronic controlled motor-driven arm, gas ignition device with control valve, hose connection, thermometer holder

Supplied with:

1 cup with handle  
1 thermometer ASTM 11C/IP 28C

Power supply: 230 V, 50/60 Hz

## Options & Accessories

12-0710	<b>Draft Deflector - CLA</b>
12-0629	<b>Pre-Regulating Valve</b> for gas supply with hose adapter, suitable for all types of burning gases
50-9111	<b>Reference Liquid - Flash-Point - Cleveland</b> ASTM D 92 Certified Value: +265 °C Content: 250 ml - Lubricant
12-0970	<b>Cup - CL-NIRO, with heat resistant handle</b> approx. 70 ml (with filling mark), standard size, stainless steel  <u>Note!</u> Flash-point results of stainless steel test inserts may deviate from standard results.
12-0962	<b>Cup - CL-DRAIN, with drainage</b> and heat resistant handle, approx. 70 ml, brass  <u>Note:</u> Not suitable for automatic units (CLA4 & CLA5).



## 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)
12-0950	<b>Standard Cup - CL, with handle</b> approx. 70 ml (with filling mark), made of brass
12-0768	<b>Heating Plate 450 W, 220 V</b>
12-2734	<b>Ignition Device with control valve</b>

## Order Guideline

Minimum equipment:	1x 12-0730, 1x 12-0629
Spares (approx. 1 year):	Thermometer
Additional requirements:	Gas supply