

AUTOMATIC CLEVELAND OPEN CUP FLASH POINT APPARATUS



Automatic Cleveland Open Cup Flash Point Apparatus TT-92E

Automatic Cleveland Open Cup Flash Point Apparatus TT-92E conforms to the ASTM D92 Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester. This apparatus is suitable for all petroleum products with flash points above 79°C (175°F) and below 400°C (752°F), with the exception of fuel oils.

APPLICATIONS

The primary application of the Automatic Cleveland Open Cup Flash Point Apparatus TT-92E is to **automatically determine the flash point and fire point** of petroleum products, in compliance with the **ASTM D92** standard. This safety-critical test is performed on products with flash points ranging from 79°C to 400°C, such as lubricating oils and other high-boiling point materials (excluding fuel oils). The automated process enhances repeatability and reduces operator time by managing the entire test sequence, from heating and ignition sweeps to cooling and data logging.

Key Industries

- **Lubricant Manufacturing:** This is an essential quality control and safety validation tool. Manufacturers must report the flash and fire points on product specifications and safety data sheets (SDS) for all their lubricants, making this a routine and mandatory test.
- **Petroleum Refining:** Refineries use this instrument to test the quality and safety of various product streams, particularly the base oils that are the primary components of finished lubricants. It ensures these intermediate products meet the required specifications before further processing or sale.
- **Industrial Maintenance & Reliability:** As a key tool in predictive maintenance programs, this tester is used to analyze in-service lubricants from machinery. A significant drop in flash point is a critical indicator of contamination (e.g., by fuel or solvents), which can signal a serious equipment malfunction, preventing costly failures.

FEATURES

- Single chip control, large LCD touch screen, programmed heating
- Automatic ignition and flash point determination
- Equipped with automatic ignition wire for automatic gas ignition
- Automatic lifting, weeping, and detection of test results
- Fast detection function, allowing setting of the heating rate as needed and quick determination of the flash point of unknown samples
- Equipped with a printer to display and print test results
- Built-in barometric pressure sensor to calibrate test results according to actual barometric pressure
- Temperature correction and barometric pressure correction functions
- Ability to set the maximum detection temperature and ignition times; when the set value is reached, the tester will stop heating automatically

TECHNICAL SPECIFICATIONS

1. Measuring range: 70□ 370°C
2. Applicable standard: ASTM D92
3. Temperature detection: Pt100
4. Flash point detection: Ionization ring detection
5. Heating rate: As per ASTM D92 requirements
6. Igniter: 220V, 1.0 kW
7. Ignition mode: Automatic electronic ignition

8. Rated voltage: AC 220V ± 10%, 50 Hz (110V also available)

9. Dimensions: 350 x 400 x 350 mm (L x W x H)

Configuration		
Item	Unit	Qty.
Main Unit	Set	1
Fuse Φ5×20 10A	Piece	
Micro printer	Set	
Test cup	Piece	
Igniter	Piece	



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 

Phone: +971 488 19252
Email: me@torontech.com

