



**Anton Paar**

::: Volatility ..... Flammability



## CLA 5

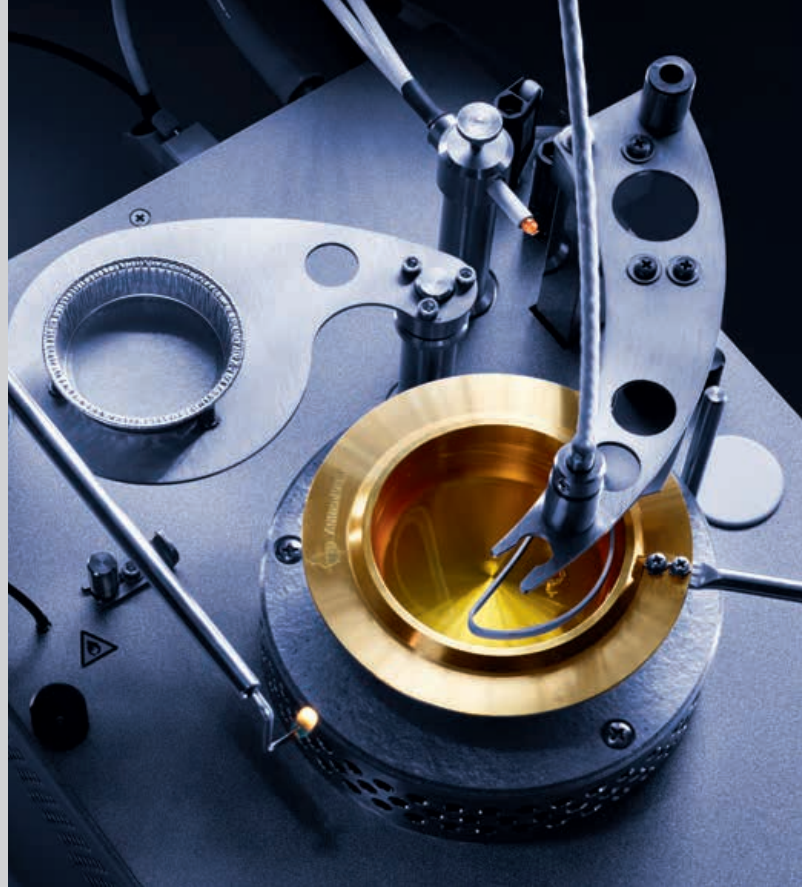
Cleveland Flash & Fire Point Tester

## CLA 5 Cleveland Flash & Fire Point Tester

The automatic Cleveland Open-Cup (COC) measures and describes the properties of a sample in response to heat and a test flame under controlled conditions. The flash point measures the tendency to form a flammable mixture with air while the fire point indicates the tendency of sustained burning. The CLA 5 is suitable for flash and fire point applications of lubricants or bituminous material.

### Benefits at a Glance

- ▶ Memory for 1000 tests, 20 operators, 100 sample names, 21 test methods
- ▶ Statistical analysis (Min, Max, Mean, Repeatability)
- ▶ Measures flash points of silicone samples without any problems
- ▶ Automatically lights up the test flame, relights it by an electric igniter and suppresses the gas source at the end of the test



### Convenient Operation

- ▶ Test initiation by pre-installed standard test methods and ability to customize methods by 10 user-defined programs
- ▶ Alert messages for out-of-spec results
- ▶ Pt100 sample temperature probe calibration either by dynamic calibration against certified ASTM thermometer or by correction table with 21 calibration points
- ▶ Calibration protocol printout
- ▶ Real-time measurement shown on a 5.7" color graphic display
- ▶ Menu navigation by jog shuttle system with easy turn-and-push operation and color-coded LED indication for each operation mode
- ▶ Data handling via USB stick for import into MS Excel® or to LIMS

### Customized User Flexibility

- ▶ PC-software FPPNet (optional) for convenient remote handling and test data storage
- ▶ Automatic skin removal kit (optional)
- ▶ Draft deflector (optional)
- ▶ Stainless steel sample temperature probe Pt100 (optional)

### Standard Methods

ASTM D92, ISO 2592, JIS K 2265-4, AASHTO T48, FTM 791-1103, IP 36, GOST 4333

### Technical Specifications

Application range	up to 400 °C (°C/°F selectable)
Ignition	Gas
Heating	According to methods, programmable and pre-heat mode
Detection of flash and fire point	Ionization detector
Sample temperature	Pt100 glass probe
Barometric pressure correction	Automatic correction
Safety	Overheat protection, automatic shut-off
Interfaces	3x USB, 1x RS232, LAN
Gas supply	50 mbar of propane or butane
Power supply	115 V/230 V, 50 Hz/60 Hz, 600 W
Dimensions	230 mm x 390 mm x 460 mm (W x D x H)
Weight	12 kg

Your distributor: