

Flash Point and Sustained Burning of Liquids

Closed Cup Apparatus

Flash Point by Small Scale Closed Tester

Sustained Burning of Liquid Mixtures by Setaflash Tester (Open-Cup)

test method

Verifies the flash point or the sustained burning qualities of small samples in the range of -30°C to $+300^{\circ}\text{C}$.

rapid flash tester

- Conforms to ASTM D3278, D3828, D4206; DOT CFR 49-173.115; IATA; ISO 9038 and related specifications
- One minute test with a 2mL sample
- Simple to operate

Rapid Tester® provides rapid determinations of flash point or sustained burning qualities by using a small sample. A flash/no flash test result is achieved in one minute for flash points below 212°F (100°C) with a 2mL sample. Ideally suited for quality assurance and environmental compliance testing as well as actual flash point for paints, fragrances, hydrocarbons and other liquids. Open cup models are used for determining sustained burning qualities characteristics of mixtures of flammable and nonflammable liquids or liquids with widely different flash points when assessing flammability characteristics. Features convenient semi-automatic operation for flash/no flash tests. Set the test temperature on the digital display and inject a 2mL or 4mL sample into the sample cup. The tester quickly stabilizes itself at the desired value, permitting the test flame to be applied and the result to be observed by the operator. Unit also performs conventional determinations of actual flash temperature by the small scale closed tester method.

Two models are offered: the Closed Cup Model is for routine flash point tests in the range from -30 to $+300^{\circ}\text{C}$ (-22 to $+572^{\circ}\text{F}$); the Open-Cup Model is for sustained burning tests in the range from ambient to 212°F (100°C). Both models include automatic temperature control with $^{\circ}\text{C}/^{\circ}\text{F}$ selector switch, syringe, electronic timer, integral NIST traceable thermometer, and an external fuel cylinder valve for connection to a customer-supplied fuel cylinder or other fuel source.

specifications

Conforms to the specifications of:

ASTM D3278, D3828, D4206; IP 303; ISO 3679, ISO 3680, ISO 9038; DOT CFR 49-173.115; IATA

Electrical Requirements

115V 60Hz 220-240V 50/60Hz

Included Accessories

Low Range Thermometer ($+32^{\circ}$ to $+230^{\circ}\text{F}$ / 0° to $+110^{\circ}\text{C}$)

Syringe

Dimensions l x w x h, in. (cm)

15x23.4x6.3 (38.1x8.6x16.2)

Net Weight: 10 lbs (4.6kg)

Shipping Information

Shipping Weight: 16 lbs (7.26kg)

Dimensions: 2.3 Cu. ft.



K16500 Rapid Flash Tester, Closed Cup



K16503 Rapid Flash Tester, Open Cup

ordering information

catalog no. description

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| K16500 | Rapid Flash Tester, Closed Cup, 115V Aluminum Test Cup/Brass Lid & Shutter |
| K16591 | Rapid Flash Tester, Closed Cup, 220-240V Aluminum Test Cup/Brass Lid & Shutter |
| K16502 | Rapid Flash Tester, Closed Cup, 115V Stainless Steel Test Cup, Lid & Shutter |
| K16592 | Rapid Tester, Closed Cup, 220-240V Stainless Steel Test Cup, Lid & Shutter |
| K16503 | Rapid Flash Tester, Open-Cup, 115V Aluminum Test Cup |
| K16593 | Rapid Flash Tester, Open-Cup, 220-240V Aluminum Test Cup |
| K16504 | Rapid Flash Tester, Open-Cup, 115V Stainless Steel Test Cup |
| K16594 | Rapid Flash Tester, Open-Cup, 220-240V Stainless Steel Test Cup |

accessories

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|--------|--|
| K16506 | Fuel Cylinder Valve |
| K16507 | Heat Transfer Compound for thermometer |
| K16508 | Metal Cooling Block to facilitate cooling of the sample cup between tests |
| K16509 | Refrigerant Charged Cooling Block to hold cooling mixture for subambient testing |
| K16510 | Syringe 2mL/4mL |
| K16531 | Low Range Thermometer ($+32^{\circ}$ to $+230^{\circ}\text{F}$ / 0° to $+110^{\circ}\text{C}$) |
| K16532 | High Range Thermometer ($+212^{\circ}$ to $+450^{\circ}\text{F}$ / $+100^{\circ}$ to $+250^{\circ}\text{C}$) |
| K16533 | Sub-Ambient Thermometer (-40° to $+185^{\circ}\text{F}$ / -40° to $+85^{\circ}\text{C}$) |



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