



Kingpo Technology Development Limited

Flame Test Equipment

Product Catalogue

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Needle Flame Tester

Model: KP-FT03



Product Description

Needle Flame Tester is a simulation experiment project using non-flame ignition source in accordance to standard requirements of IEC60695 -11-5、GB/T5169.5-2008、GB4706.1-2005, etc.

Needle Flame Tester uses Needle-shaped burner in required size ($\Phi 0.9\text{mm}$); transport butane gas into it, ignite the specimen at a regular time and angle of 45° , to check whether the specimen ignites, lasting ignition time and combustion length to test the ignition fatalness of devices inside because of flammule caused by breakdown.

Needle Flame Tester is suitable for research, production and quality testing department of electrical devices and component parts like lighting equipment, low voltage apparatus, household appliance, machine tool electric appliance, motor-driven machine, electric tool, electronic instrument, electrical connectors and accessories; also suitable for insulating material, engineering plastic and other solid combustible material industry.

Technical Parameter

1、 needle-shaped burner: higher than 35mm、 stainless steel needle : $\leq \Phi 0.9\text{mm}$ (outer



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- diameter), $\Phi 0.5 \pm 0.1\text{mm}$ (inner diameter)
- 2、burner angle: 0° 、 45° adjustable
 - 3、exertion ignition time: $0-9999.9\text{s} \pm 0.1\text{s}$ adjustable (generally choose 30s)
 - 4、lasting time: $0-9999.9\text{s} \pm 0.1\text{s}$.
 - 5、flame height: $12\text{mm} \pm 1\text{mm}$.
 - 6、ignition gas:butane or propane with more than 95% purity
 - 7、test temperature: $0 \sim 1000^\circ\text{C}$
 - 8、required temperature: from $100^\circ\text{C} \pm 2^\circ\text{C}$ rise to $700^\circ\text{C} \pm 3^\circ\text{C}$ within $23.5\text{s} \pm 1\text{s}$
 - 9、temperature thermocouple : K type $\Phi 0.5\text{mm}$ accuracy $\pm 0.05\%$
 - 10、test background: black
 - 11、test process: automatic control with independent ventilation
 - 12、Reference Standard: IEC60695 -11-5、GB/T5169.5-2008、GB4706.1-2005
 - 13、studio area: bigger than 0.5 cubic meter (can be customized as 0.75 or 1 cubic meter as customer required)
 - 14、external dimension: $1100\text{mmW} \times 700\text{mmD} \times 1300\text{mmH}$
 - 15、control:single chip Microcomputer touch screen+button type double control system,high accuracy temperature gauge,independent electrical control system,strong anti-interference.
 - 16、operation with high efficiency:One-touch operation ,fast and highly effectively
 - 17、standard integration: program test procedures in accordance with actual test procedures.