



**Deatak Inc**

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EIN # 32-0021631

## VC-3 Vertical Flammability Tester





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**Specifications/Standards**

FAR Part 25 Appendix F Part I (Vertical 12 and 60 seconds)	Aircraft Materials Fire Test Handbook Chapter 1
Airbus AITM 2.0002A	Airbus AITM 2.0002B
Boeing BSS 7230 F1	Boeing BSS 7230 F2
Test Method 5903 Federal Standard 191A	NFPA 1971, 1975, 1976, 1977, 1981, 2112
CPAI 84	ASTM F 1506, Section 7.6 - Flammability
California Code of Regulations Title 19 1237 Small Scale	

**Description**

VC-3 is used to determine the resistance of materials to flame when a burner is applied to a hanging vertical specimen for a set time of impingement.

Determined measurements include after flame, drip burn, and burn length.

“This test method is intended for use in determining the resistance of materials to flame when tested according to the 60-second and 12-second Vertical Bunsen Burner Tests specified in Federal Aviation Regulation (FAR) 25.853 and FAR 25.855.” (Aircraft Materials Fire Test Handbook)\*

**Features**

- 100-240V 50/60Hz 1.6A, single phase
- Cabinet fabricated with high quality brushed stainless steel
- Adjustable burner positioning (x,y,z axis)
- Burner
- Manual lever for burner positioning
- Handheld flame height indicator
- Electronic solenoid gas flow control (on/off)

**Includes**

- 1 hinged, stainless steel specimen holder

**Digital Control and Safety Option**

Flame Control Module (FCM) with Human Machine Interface (HMI)

- 3 inch digital touchscreen control
- Automatic burner positioning system (motor system controlled by PLC to automatically move the burner in and out of test position)
- Ensures exact flame impingement time
- Burner verification for added safety
- Built in flame temperature validation
- Digital timer accurate to 10 nanoseconds
- Records flame application time, after flame time and afterglow time



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**Dimensions/Shipping (WxDxH)**

Instrument 14in x 25in x 40in (36cm x 64cm x 102cm)

Ships in a crate, 110 lbs., 44in x 27in x 27in (50kg, 112cm x 69cm x 69cm)

**Facility Requirements**

Fume enclosure or overhead exhaust hood (36"x36") variable speed capability, 300-1,000 SCFM exhaust capacity

High purity methane supplied at 2.5 PSIG, 1/4" Swagelok tube fitting

**Deatak Warranty**

Deatak warrants the instrument to be free of defects in materials and workmanship of non-consumable parts for a period of one (1) year from date of acceptance. If the instrument malfunctions due to a defective component, the defective component will be replaced at no charge to the customer. The Deatak warranty does not apply to defects arising out of mishandling, improper operation, or accidental damage.

\*Aircraft Materials Fire Test Handbook, Vertical Bunsen Burner Test for Cabin and Cargo Compartment Materials.