

CTL15 - Layer Ignition Temperature Apparatus

Determines the minimum ignition temperature for a given thickness of powder deposited on a hot surface.

The Layer ignition temperature test apparatus permits the determination of the minimum ignition temperature of a given thickness of powder deposited on a hot surface. The method is used for the specification of the 'T' temperature rating of electrical equipment for use in hazardous areas (dusty atmospheres). It is also relevant to other industrial equipment where dust is present on hot surfaces in thin layers exposed to the atmosphere and is manufactured in accordance with IEC 61241-2, EN 50281-2-1 & ISO/IEC 80079-20-2...

Functional Specification and Deliverables

- > Layer Ignition Hotplate (1250 W / 6 A, 220 240 V (100 120 V via transformer option)) single-phase. Temperature range = 0 Remote controller unit (incorporates PID temperature control). Sample may be ramped in temperature or held isothermally.
- > K-type thermocouple and extension cable for both hotplate and sample
- > 5 mm, 12.5 mm, 15 mm sample retaining rings supplied (100 mm diameter)
- > Data acquisition hardware and software
- > 1 x instruction manual

Optional Extras

- > 200 µm sieve and catchment tray with lid
- > Spare sample retaining rings (rings of any height maybe fabricated for you)
- > Spare thermocouples
- > PC and LCD monitor with LIT test software pre-installed
- > Calibration services
- > Training services in Layer Ignition Temperature testing
- > Custom data acquisition for multiple hotplates

Benefits:

- Designed for testing to ISO/IEC 80079-20-2, EN 50281-2-1 & ASTM E2021 for specifying the maximum surface temperature of electrical and nonelectrical equipment
- > Tests can be performed on a range of samples including 5, 12.5 or 15 mm depths (other depths available optionally)
- > Data recording
- > Compact in size
- Novel sloping edge shield design located under the hot plate surface to permit expanding samples to run down into a drip tray located under the hot-plate unit (drip tray not supplied as standard)





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