

THINKPAD MIL-STD TESTING LEADERSHIP



Lenovo's dedication to constantly improving product quality means rigorous testing for reliability and durability. In addition to our extensive in-house testing for real-world challenges, Lenovo ThinkPad® devices are tested against twelve* MIL-STD 810G Methods and twenty Procedures.

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INDUSTRY-LEADING PRODUCT TESTING FOR DURABILITY AND RELIABILITY

Since 2007, Lenovo has used the US Department of Defense's MIL-STD 810G* standards to help our products strike a perfect balance of value and durability right out of the box.

ThinkPad products are currently tested for 12 total methods and 20 procedures:



MECHANICAL SHOCK

High acceleration, repeated shock pulses over 18 times



VIBRATION

Tested while running and turned off



SHIPBOARD VIBRATION

4-33Hz for 2 hrs.



HUMIDITY

91-98% relative humidity, at 30-60°C



EXTREME TEMPERATURE

-25 - 60°C over 3 cycles of 2 hr. duration



HIGH TEMPERATURE

Storage: 63°C for 24 hrs.
Operation: 43°C for 8 hrs.



LOW TEMPERATURE

Storage: -25°C for 24 hrs.
Operation: -21°C for 8 hrs.



SAND & DUST

140 mesh silica dust for 6 hr. cycles
and silica sand for 90 min. cycles



FUNGUS

28 days with common fungus sources



ALTITUDE

Tested for operations at 15,000 feet



SOLAR RADIATION

Seven 24-hr. cycles of simulated UV radiation



EXPLOSIVE ATMOSPHERE

Fuel vapor environment

*MIL-STD 810G establishes a methodology for testing products against environmental stresses under controlled laboratory conditions. Such testing is not a guarantee of future performance under these test conditions. Abuse, like that contained in MIL-STD 810G testing, is not covered under Lenovo's standard warranty.