ABOUT NTS ANAHEIM

NTS Anaheim, formerly Microtek Laboratories, specializes in electronics and materials conformance, qualification and reliability testing to all levels of the supply chain. NTS Anaheim has an unparalleled reputation for the highest level of customer service and reliable independent test results. The laboratory is fully certified under UL’s Third-Party Test Data Program (TPTDP), Data Acceptance Program (DAP) and Client Agent Program (CAP). It is also A2LA and ISO 17025 accredited and a recognized IPC training center.

ELECTRONIC AND ELECTRICAL TESTING

Electrical testing and analysis is a core capability of NTS Anaheim with more than 30 years’ experience servicing the electronics and circuit board industries. Our engineers routinely provide test program insight and development allowing customers the flexibility to enhance and/or structure programs to their specifications.

MECHANICAL TESTING

Our mechanical test department utilizes tensile test machines, impact testers, bend and fatigue machines and computers with state-of-the-art programmable software to run programs for clients in industries such as electronics, composites, plastics, aerospace, automotive, medical, commercial and defense.

FAILURE ANALYSIS

NTS Anaheim’s failure analysis program can provide detailed information regarding the performance of materials and devices for their end-use application as well as root-cause analysis. This will allow you to identify design, selection, test and process deficiencies then take corrective action to enhance product reliability and performance. Our unbiased analysis converts your failure into an asset, resulting in production of higher quality products.

PRINTED CIRCUIT BOARD TESTING (PCB)

Our highly-qualified staff of mechanical and electrical engineers can perform physical, mechanical, electrical, visual/dimensional testing and verification at the bare board level, on raw materials as well as assembled PCBA’s. This includes evaluation to both military and commercial standards including IPC certifications and test methods MIL-PRF-55110, MIL-PRF-31032, MIL-PRF-50884, ASTM and IEC.

POLYMER, PLASTIC AND RUBBER MATERIALS TESTING

NTS Anaheim can assess the mechanical strength and integrity of these materials in your product and provide the required data to properly evaluate the application performance.

ENVIRONMENTAL TESTING

We have a wide range of environmental testing services to meet your specific requirements. Environmental simulation or accelerated aging can be performed as an independent conditioning or in conjunction with electrical testing.

NTS Anaheim performs electronic/electrical, mechanical, PCB, polymer, plastics and rubber testing as well as failure analysis.

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TEST SPECIFICATIONS AND METHODS INCLUDE:

- Accelerated aging
- Adhesion
- Arc resistance
- Ball shear/die sheet
- Ball pressure test
- Barcol hardness
- Bond strength
- Break strength
- Comparative Tracking Index (CTI)
- Compressive strength
- Conductivity
- Conductive anodic filament (CAF)
- Conformance and reliability
- Corrosion
- DC resistance insulating materials
- Dielectric breakdown/strength
- Decapsulation
- Deflection temperature
- Design of experiments (DOE)
- Density determination
- Dielectric constant (DC) and dissipation factor (DF)
- Dielectric breakdown voltage and strength
- Differential scanning calorimetry (DSC)
- Durability
- Dynamic mechanical analysis (DMA)
- Electromigration resistance
- Elongation
- Environmental stress screening (ESS)
- Flammability
- Flexibility endurance
- Flexural bend/fatigue/strength/
- Fourier transform interferometry (FTIR)
- Fracture evaluation
- Fracture toughness
- Hi-Pot
- High temperature storage
- High-voltage, low current dry arc
- Hot impact test
- Humidity
- Immersion
- Insulation/interconnection/moisture resistance (CSAM/SEM)
- Microsectional analysis
- Permittivity and Loss
- Surface insulation resistance (SIR)
- Volume/surface resistivity
- Lap shear
- Material characterization
- Mechanical properties
- Peel/shear/tensile/terminal strength
- Rework simulation
- Salt Fog
- Scanning acoustic/electron microscopy
- Solderability
- Steam aging
- Temperature aging/cycling
- Tensile impact
- Tension and compression
- Thermal shock/cycling
- Thermal stress
- Thermo gravimetric analysis (TGA)
- UL short-term properties
- UL long-term thermal aging (LTTA)
- Water absorption
- Dielectric withstanding voltage (DWV)
- Wire ignition
- X-Ray and X-Ray flourescence (XRF)
- Young’s Modulus

ABOUT NTS

As one of the largest commercial test laboratory networks in North America, NTS offers test, inspection and certification services for environmental, dynamics, EMC, wireless, product safety, materials, ballistics and much more. Our client partners rely on NTS to bring quality products to market quickly and efficiently, and so can you.