

DENTAL MATERIALS TESTING EQUIPMENT



Dental Materials Testing | Thickness & Wear Resistance for Restorative Materials

Dental materials testing equipment measures the thickness and wear resistance of restorative and prosthetic materials used in dental products. Torontech's range covers a precision thickness tester built around Mitutoyo sensors for dental restorative, prosthetic, ceramic, and composite samples, alongside a dedicated wear resistance tester that simulates abrasion cycles on dental composite resin. Manufacturers, dental material researchers, and quality control labs use these instruments to confirm material dimensions and wear performance hold up to dental material testing requirements.

Both instruments target a different stage of dental material qualification. The thickness tester validates dimensional consistency during production and R&D, while the wear resistance tester evaluates how a composite resin formulation holds up under simulated long-term abrasion.

Why Choose Torontech for Your Dental Materials Testing

Torontech supplies testing and measurement equipment to laboratories and manufacturers across North America and worldwide, backed by responsive technical support and calibration service. The Dental Materials Testing range is built for reliable, standards-driven results, so you can standardize on one supplier as your testing needs grow. Our team helps you match the right configuration to your samples, applicable standards, and throughput, then supports you through installation and beyond.

Request a Quote

Tell us which dental material property you need to test and your sample types, and we will recommend the right instrument from this range. [Contact the Torontech team](#) for pricing and lead times.

APPLICATIONS

Applications

Dental materials testing supports manufacturers and research labs developing restorative and prosthetic dental products.

- Dental Restorative Material Manufacturing: confirms thickness consistency of restorative materials, ceramics, and composite samples during production QC.
- Composite Resin Formulation Development: evaluates wear resistance and wear loss of dental composite resin formulations under simulated abrasion cycles.
- Academic and Clinical Research: supports comparative studies on dental material durability and dimensional stability.
- Regulatory and Compliance Testing: provides repeatable thickness and wear data to support dental material regulatory submissions.

TECHNICAL SPECIFICATIONS

Dental Materials Testing Range

The range covers two instruments addressing different stages of dental material qualification.

- [Dental Materials Thickness Tester](#): ToronMed™ DMTT01 uses a mechanical contacting method with Mitutoyo high-precision sensors to measure the thickness of dental restorative, prosthetic, ceramic, and composite materials, with automatic measuring head lifting and multi-point statistical reporting.
- [Dental Composite Resin Wear Resistance Tester](#): ToronMed™ DCRWRT simulates real-world abrasion through controlled circular motion cycles (1 to 100,000 cycles) under selectable 22N or 172N loads, measuring preliminary wear and wear loss of dental composite resin specimens.

How to Choose the Right Dental Materials Tester

- For dimensional QC of restorative and prosthetic materials: choose the dental materials thickness tester to verify thickness consistency across production batches.
- For composite resin durability evaluation: choose the dental composite resin wear resistance tester to compare wear performance across resin formulations.
- For full material qualification: combine both instruments to validate dimensional accuracy and long-term wear performance in one testing program.



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