

Microtensile Tester

From BISCO's Research Equipment Group

Measure Microtensile Bond Strength of Dental Adhesives



*Transportable and Easy to Use
Designed For Dental Research*

The Microtensile Tester, developed and manufactured by BISCO, Inc. is intended to meet the need for a low cost, safe and easy to use research tool for measuring the microtensile bond strength of dental adhesives. A typical sample is approximately 0.9mm x 0.9mm in cross section with up to 100 MPa of bond strength. The precision machined test jaws are oriented horizontally so the effect of gravity is negligible. Frictional errors are also minimized by the design. Typical test cycles take less than one minute to perform. A low voltage DC, high torque variable speed gear motor rotates a cam that provides

the tensile forces at a rate of approximately 155 grams per second. Forces are measured via a NIST traceable force gauge with digital readout and failure force display. The maximum measurable force allowed by the system is 50 kg (110 lbs, 500 N). Test samples are glued directly to the test jaws, with an innovative design that reduces the possibility of contaminating the test jaws with the mounting adhesive. The starter kit includes 2 test jaws so samples can be prepared and mounted to one test jaw while testing is being performed using another.



FOR MORE INFORMATION:

Contact Rich Nagel to learn more at rnagel@bisco.com

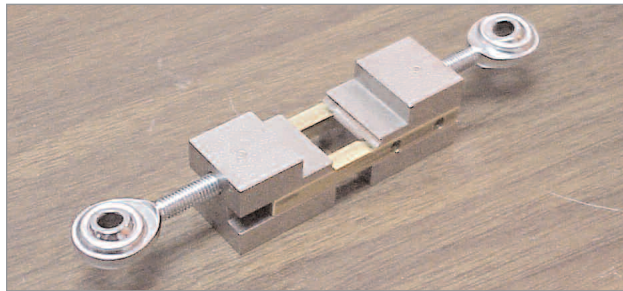
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MC-3422MT

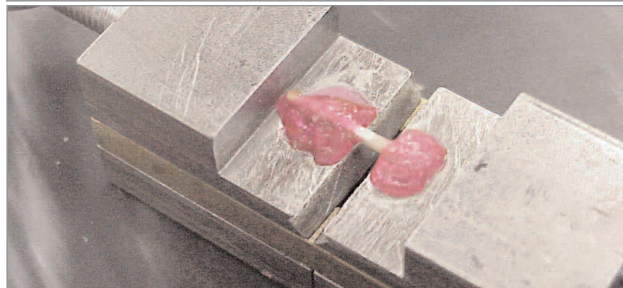
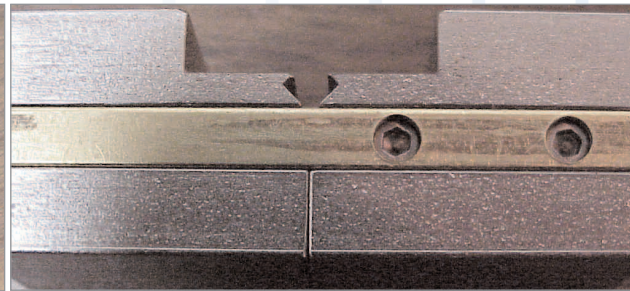
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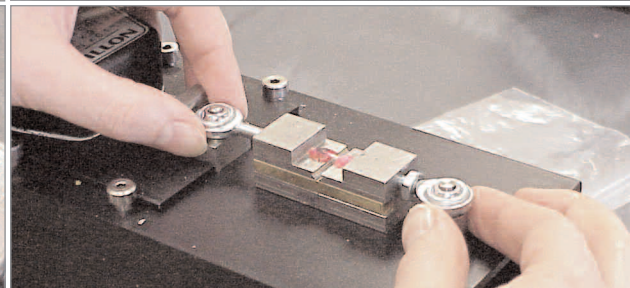
Precision machined test jaw



Side view of test jaw



Sample attached to the test jaws



Sample and test jaws placed on test bed

ORDERING INFORMATION

KIT CONTENTS

MICROTENSILE TESTER

T-61010K

2 Microtensile Tester Test Jaws, 1 Test Bed, 1 Force Gauge,
1 ZAPIT™ Adhesive Introductory Kit, 10 Polycarbonate Blocks for Holding and Cutting
Sample Bars, 2 Syringes LIGHT-CORE™ Shade: BLUE (5g ea.), 1 AC to DC Power Adapter,
100-240V AC, 1 User Manual

REPLACEMENTS/ACCESSORIES

ADDITIONAL TEST JAW

T-6111P

ZAZAI ZAPIT INTRODUCTORY KIT (1/3oz. base, 2oz. solvent, 2oz. accelerator, 2 tips)

T-6112P

ZAZAB-20 ZAPIT BASE REFILL (20g)

T-6113P

10 POLYCARBONATE BLOCKS

T-6114P

CARRYING CASE FOR MICRO TENSILE TESTER

T-6115P

LIGHT-CORE Shade: BLUE (2 syringes, 5g ea.)

A-1728P

*ZAPIT is a trademark of Dental Ventures of America.

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TO ORDER CALL BISCO:
800-247-3368 • 847-534-6000

Contact us for information on BISCO's Shear Bond Tester and ACUVOL™ Volumetric Shrinkage Analyzer.