(800) 628-8139 or (508) 946-6200
brookfieldengineering.com

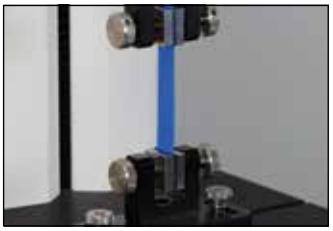
Texture Analyzer Accessory Guide

Designed for precision and flexibility, the CTX and CT3 Texture Analyzers feature interchangeable load cells and a wide range of accessories making them ideal for consistent testing across a variety of applications.

- F FOODS
- C COSMETICS
- P PHARMACEUTICALS
- M MATERIALS & PACKAGING
- D DEVICES - MECHANICAL



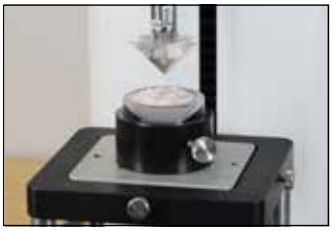
GMIA & GME Probe and Spec Bloom Bottle
TA-GBB-2 sold in package of twelve bottles.
TA10 & TA-GBB-2 F



Dual Grip Fixture
Tensile testing of thin films or integrity of seals for packaging.
TA-DGF001 M P D



AACC Spec Probe
For measuring bread firmness and performing texture profile analysis (TPA). Fixture Base Table required.
TA-FMBRA F



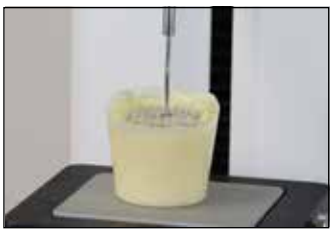
Spread Test Fixture
Quantifies the spread force of a material. Comes with one male cone probe, five samples cups, and one sample cup holder. Fixture Base Table required.
TA-STF C P F



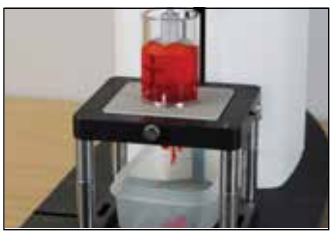
Cylindrical Probe
Used to measure the force vs. distance in mechanical springs. TA11: included in TA-P-KIT2 or as a standalone part.
TA11/1000 D



1mm Shear Blades
For cutting-shear test: meat, fish, sausage, etc. TA-SBA-WB-3 option for 3mm blades. Fixture Base Table required.
TA-SBA F



Mesh Probe
Quantifies the consistency of products such as mayonnaise and yogurt.
TA-MP F M



Dual Extrusion Cell
For either forward or back extrusion of fruit puree, pudding, yogurt or similar products. Fixture Base Table required.
TA-DEC F C P



Compression Top Plate
For applying uniform compression forces on samples up to 4x6 inches (10x15 cm). Fixture Base Table required.
TA-CTP F



Shear Blade
For cutting tests, especially meat, poultry, fish, or similar products. Fixture or Rotary Base table recommended.
TA52 F

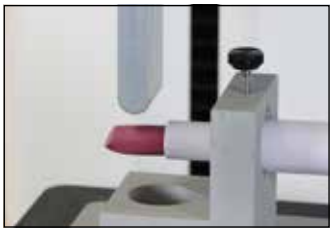


Dough Extensibility Fixture
For holding sheet of raw dough or flat bread to measure breaking point of stretched sample. Fixture Base Table required.
TA-DE F

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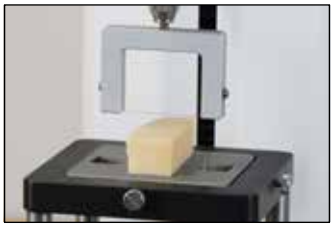
Texture Analyzer Accessory Guide



Lipstick Cantilever Test Fixture
Allows imitative tests on lipstick and similar products to quantify strength of product. Fixture Base Table required.
TA-LC C



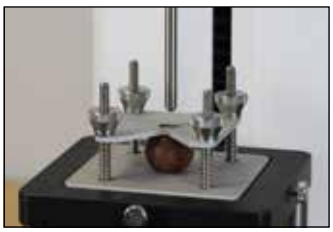
Roller Cam Accessory Grips
Measure the tensile strength and tear characteristics of material such as polymer films.
TA-RCA M D



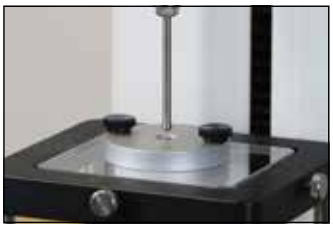
Wire Shear Plate
Cuts through the sample. Good for products with significant stickiness like cheese and butter. Fixture Base Table required.
TA-WSP F



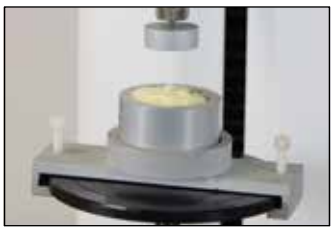
Raft Tester
Measures alginate Raft Strength by pulling wire raft hook out of the sample material.
TA-RT P



Confectionery Fixture
For holding candies and similar products for penetration testing. Fixture Base Table required. Probe not included.
TA-CJ F



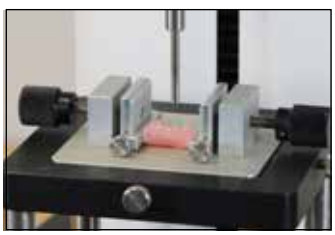
Film Support Fixture
For puncture test to measure strength of fine films. Fixture Base Table required.
TA-FSF M P



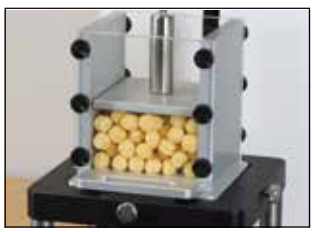
Back Extrusion Cell
For measuring consistency of applesauce, pudding, yogurt and similar products. Rotary Base Table required.
TA-BEC F M



Magness-Taylor Probes
For puncture test to measure hardness of fresh fruit and vegetables . Fixture Base Table required.
TA-MTP F



Adjustable Vice Fixture
For holding small samples for puncture test. Good for jelly beans, gum drops, etc. Fixture Base Table required.
TA-AVJ F M



Ottawa Cell (447cc)
For bulk compression to determine hardness and crispiness of cereals, vegetables, or fruits. Fixture Base Table required.
TA-OC-002 F



Volodkevich Bite Jaws
For testing bite force of meat products using shear cutting-test. Fixture Base Table required.
TA-VBJ F



Craft Knife Adapter
Cuts cleanly into and through material with minimum deformation of the sample.
TA-CKA F

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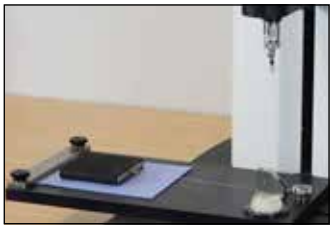
Texture Analyzer Accessory Guide

The CTX and CT3 Texture Analyzers deliver reliable, repeatable results with a wide range of flexible accessories, making it ideal for testing food, pharmaceutical, cosmetic, materials, and material applications.

- F FOODS
- C COSMETICS
- P PHARMACEUTICALS
- M MATERIALS & PACKAGING
- D DEVICES - MECHANICAL



Standard Dough Pot
Set for preparing dough samples and measuring dough firmness.
TA-FMBRA F



Sliding Friction Jig
Measures the coefficient of friction for packaging materials according to the ASTM D1894.
TA-SFJ M D



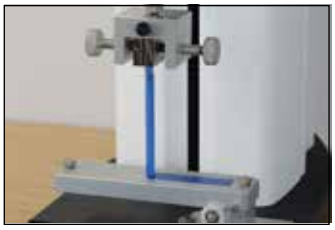
Hair Combability Fixture
Measure the effect of hair dyes, shampoos, conditioners, and treatments on hair combability.
TA-HCF C



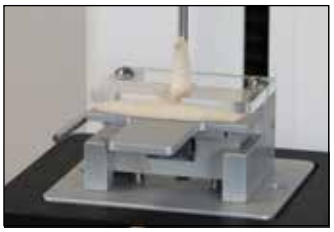
Eye Pencil Test Fixture
Measures hardness of cosmetic pencil tips for eye or lip-lining products and can be used for artistic type pencil tips. Fixture Base Table or Rotary Base Table required.
TA-EP C M



Dough Stickiness Fixture
Standard test for measuring dough stickiness; important for processing raw dough. Fixture Base Table required.
TA-DSJ F



90° Peel Fixture
Measures the adhesive strength to pull a tape off of a rigid surface using force at 90° angle.
TA-PF90 M



Kieffer Dough and Gluten Extensibility Fixture
Quantifies maximum force and distance needed to break sample. Fixture Base Table required.
TA-KF F



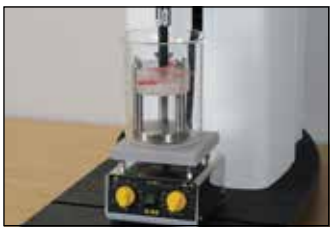
Syringe Test Fixture
Measuring the force required to push or pull a syringe plunger. Important to all syringe markets. Fixture Table required.
TA-STJ P



Tube Extrusion Jig
Measures the force required to dispense creams, paste, gels, or ointments from tubes and similar packaging.
TA-TE C P



Three Point Bend Fixture
Used with TA7 blade from general probe kit. Fixture Base Table required. Small scale version TAJTPB is available.
TA-TPB F

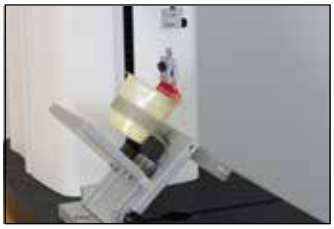


Muco Adhesion Test Fixture
Simulates body/temperature conditions and force needed to pull a tablet away from a mucosal surface.
TA-MA115/TA-MA230 P

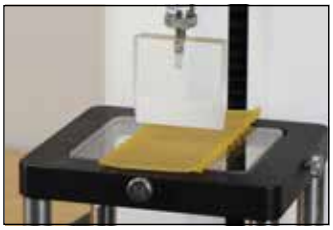
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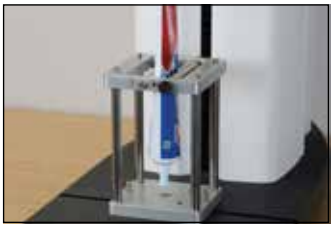
Texture Analyzer Accessory Guide



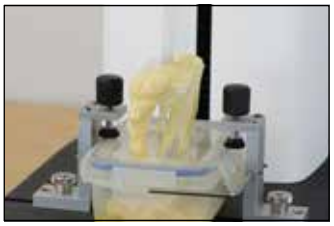
General Peeling Jig
Measures the adhesive strength needed to remove the lid from a sealed container at 0°, 45°, and 90° angles.
TA-GPJ M



Pasta Firmness and Stickiness Fixture
Measures shear strength when biting pasta and like products. Fixture Base Table required.
TA-PFS-C F



Tube Extrusion Fixture
Measures continuous extrusion force of tube or sachet samples. Top vice grip included.
TA-TEF C P



Cheese Extensibility Fixture
Measures the extensibility of molten cheese sample to breaking point.
TA-CEF F



Pasta Firmness and Stickiness Fixture
Measures the firmness and stickiness of uncooked pasta. Fixture Base Table required.
TA-PFS F



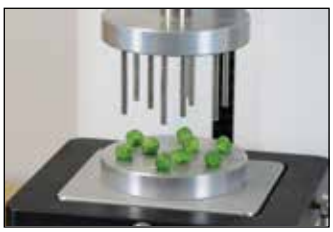
Junior Punch Fixture
Punching through flat samples; 12.7mm max. diameter probe. Hole in fixture is 14mm. Rotary Base Table required.
TA-JPA F M



Tablet Coating Adhesion Fixture
Measures the adhesion force of a tablet coating to a tablet. Fixture Base Table required.
TA-TCA P



Pizza Tensile Fixture
Quantifies cooked pizza firmness by measuring the tensile force and deformation distance to break sample.
TA-PTF F M



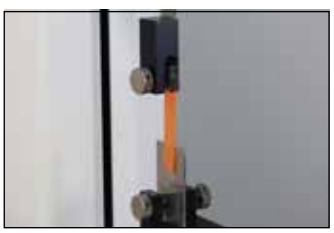
Multiple Probe Assembly
Consisting of nine 3mm probes and base plate designed to hold nine small samples of irregular geometry. Fixture Base Table required.
TA-JMPA F P



Adhesive Tack Tester
Measuring stickiness of pressure sensitive adhesive materials such as tape. Rotary Base Table required.
TA-ATT M P



Spaghetti Flexure Fixture
Quantifies flexure characteristics of uncooked spaghetti and other dry pastas.
TA-SFF F



180° Peel Fixture
Consists of top & bottom grips to measure adhesive strength when pulling tape off rigid surface using force at 180° angle.
TA-PF180 M

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Texture Analyzer Accessory Guide



Circular Support Fixture
Provides support for round samples and retains any potential fluid expressed during the test. Fixture Base Table required.
TA-CSF F



Multiple Chip Fixture
Used for testing the penetration or firmness of multiple chips/french fries. Fixture Base Table required.
TA-MCF F



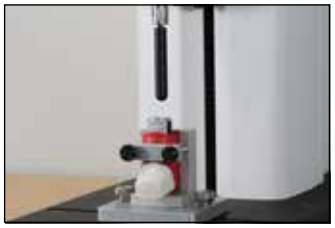
Blister Pack Support Fixture
Used to measure the force required to remove the tablet from its blister pack. Fixture Base Table required.
TA-BPS P



Kramer Shear Cell
For bulk texture testing of small particulate foods such as grapes, corn, beans, vegetables, and snacks. Simultaneously compresses and shears the sample to quantify firmness and texture. Fixture Base Table required
TA-KSC-002 F



Bilayer Shear Fixture
Measures shear strength by cutting a two-part tablet or capsule using a guillotine blade. Fixture Base Table required.
TA-BLS002 P



Metered Dose Inhaler Fixture
Measures the push-button force to actuate the inhaler.
TA-MDI P



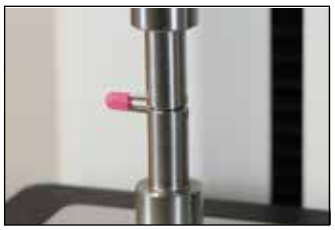
Tortilla Roll Up Fixture
Evaluate changes in corn tortilla texture per AACC technical paper by measuring the force to roll up a tortilla.
TA-TRF F



Tablet Compression Fixture
Performs a ring crush test (includes four rings). Bead compression test fixture is also included. Fixture Base Table required.
TA-TCF P



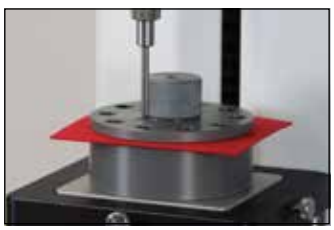
Adhesive Test Fixture
Measures adhesive force of plaster and similar samples. Includes flat cylindrical probe, base plate, and top clamp to hold the sample.
TA-ATTPT M



Capsule Loop Tensile Test Fixture
Used to measure the force required to split one half of a hard gel capsule. Fixture Base Table required.
TA-CLT P



Loop Tack Test
Measures the adhesive strength of pressure sensitive tape and stickers according to ASTM D6195.
TA-LTT M



Rotary Indexing Fixture
Measures adhesive force to pull tape off a surface. Multiple tests done on same sample for average value. Fixture Base Table required.
TA-RIF M

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Texture Analyzer Accessory Guide



General Probe Kit with Carrying Case
Variety of probes:
(1) cutting wire
(8) cylindrical
(3) cone
(1) knife-edge
(2) ball
(1) needle
Complies with BS and AACC.

TA-P-KIT2

F C P M D

Standard Probes

A	TA53	cutting wire
B	TA25/1000	50.8mm dia.
C	TA4/1000	38.1mm dia.
D	TA11/1000	25.4mm dia.
E	TA10	12.7mm dia.
F	TA17	24mm dia. 30°
G	TA15/1000	30mm dia. 45°
H	TA2/1000	30mm dia. 60°
I	TA7	knife-edge
J	TA43	25.4mm dia.
K	TA18	12.7mm dia.
L	TA9	needle
M	TA41	6mm dia.
N	TA39	2mm dia.
O	TA44	4mm dia.
P	TA5	12.7mm dia.



Curd Probe Kit
one each of:

A	TA46	5mm
B	TA47	8mm
C	TA48	10mm

TA-P-KIT3



Calibration Weight Set
Includes a set of certified weights designed to verify the calibration and linearity of each individual load cell.

TA-CW-100C
TA-CW-1000C
TA-CW-1500C
TA-CW-4500C
TA-CW-5000C
TA-CW-10KG
TA-CW-2550KG

Also available:

A broad selection of probes including cylindrical, cone, ball, needle, knife-edge, and wire cutting styles.

AMETEK Brookfield offers custom-designed fixtures and probes to accommodate a wide range of testing applications. For tailored solutions to your texture and materials testing needs, contact AMETEK Brookfield or an authorized dealer.

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Texture Analyzer Accessory Guide

BASE TABLES



Rotary Base Table
Provides quick and easy height adjustment to accommodate samples of various sizes. Included are pair of T-bolts for securing Rotary Base Table to slot in base of CTX & CT3 Texture Analyzers.

TA-RT-KIT



Fixture Base Table
Rectangular with removable insert which can be used as test surface or replaced with a number of test fixtures. Included are pair of T-bolts for securing Fixture Base Table to slot in base of CTX & CT3 Texture Analyzers. Also included are four sets of extension legs with different lengths to adjust the test surface height.

TA-BT-KIT

How to Select a Texture Analyzer Accessory

1. Define the material being tested.
2. Identify the test type:
   a. Compression
   b. Shear
   c. Tension
   d. Extrusion
   e. Adhesion
3. Select the Fixture.
4. Select the Probe.
5. Verify required base table.

TEXTURE ANALYSIS TESTING SERVICES

A variety of texture analysis testing services can be performed at all AMETEK Brookfield locations (USA, UK, Germany, China India, Thailand and South Africa).

APPLICATION AND TECHNICAL SUPPORT
Ongoing guidance and prompt assistance to maximize the potential of our instruments and methodologies, ensuring optimal results for your applications.

SAMPLE AND MATERIAL TESTING
Evaluating finished products and raw materials for consistency, quality, composition, strength, and durability to ensure they meet specified standards.

METHOD DEVELOPMENT AND RECOMMENDATIONS
Designing and refining testing protocols, selecting appropriate parameters, and optimizing conditions to meet your specific needs. Expert evaluations help identify the most suitable instruments and methodologies.

INDEPENDENT VERIFICATION
Expands the capability of your laboratory by utilizing AMETEK Brookfield's services to accomplish testing work on a timely basis.

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Texture Analyzer Accessory Guide

Most Requested Starter Packages

Food Texture Testing

General Probe Kit with Carrying Case:
TA-P-KIT2

Fixture Base Table:
TA-BT-KIT

1mm Shear Blades:
TA-SBA

Back Extrusion Cell:
TA-BEC

AACC Spec Probe:
TA-FMBRA

Packaging & Materials Testing

Dual Grip Fixture:
TA-DGF001

90° Peel Fixture:
TA-PF90

Sliding Friction Jig:
TA-SFJ

Tube Extrusion Jig:
TA-TE

Pharmaceutical Testing

Tablet Coating Adhesion Fixture:
TA-TCA

Blister Pack Support Fixture:
TA-BPS

Capsule Loop Tensile Test Fixture:
TA-CLT

Metered Dose Inhaler Fixture:
TA-MDI

Syringe Test Fixture:
TA-STJ

Typical Applications by Industry

Industry	Common Measurements
Food & Beverage	Firmness, tenderness, spreadability, dough extensibility, crispiness
Dairy	Yogurt consistency, cheese extensibility, butter firmness
Bakery	Bread firmness, dough extensibility, texture profile analysis
Confectionery	Candy hardness, chewiness, bite force
Cosmetics & Personal Care	Lipstick strength, cream consistency, hair combability
Pharmaceuticals	Tablet hardness, coating adhesion, capsule separation, blister pack testing
Packaging	Seal strength, film puncture resistance, peel force, coefficient of friction
Materials & Engineering	Spring force, tensile strength, elasticity, adhesive performance

Texture Products

CTX Product Page

CT3 Product Page

Resource Library

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