



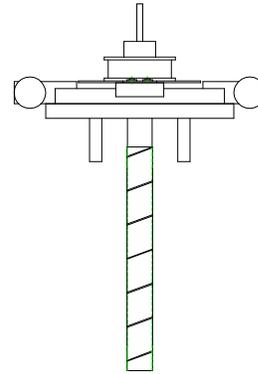
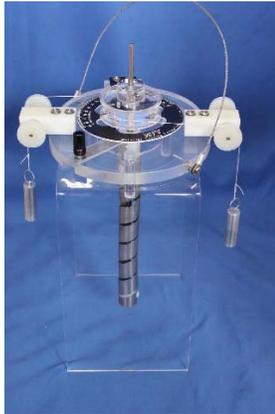
Standards:
 ASTM B636 - 10
 EFTF.SM0000.10

Material Type:
 PLATING

Type of Testing:
 STRESS

MODEL NO. EFTF.SM0000.10

MTT SPIRAL CONTRACTOMETER



Model No.
 EFTF.SM0001.10

Specimen Size

ASTM.B0636.10

Construction
 Acrylic, plastic, and stainless steel
 Acrylic, plastic, and stainless steel

Temperature
 Ambient
 Ambient

Specimen:	Type	Test stress levels of plating tanks
Fixture:	Mounting	Titanium anode basket
	Weight	11 lbs approximately
	Dimensions	8" x 6" x 12"
	Standard	Manufactured in accordance with ASTM B636

QUOTE

Internal stress exists as an inherent force within electroplated and chemically applied metallic deposits. This induced stress can be tensile or compressive in nature, causing the deposit to contract or expand in relation to the base material. High levels of stress in deposits produce micro-cracking and macro-cracking, and in severe cases produce a lack of deposit adhesion in the form of blistering, peeling, and flaking. The best way to evaluate the internal deposit stress in metallic coatings is the Spiral Contractometer method.

MTT's Helix are constructed from 0.010 inch thick stainless steel and mounts on the Contractometer which allows the plating on the entire outside surface reduces deposite on the inside of the helix.

Model No. EFTF.SM000.10 - Spiral Contractometer

The Contractometer is used for measuring stress in plating tanks. By submerging the helical sensor portion of the Contractometer in the plating bath solution, and allowing approximately 0.0005" of metal to be deposited on the outside of the helix, the stress can be determined. The helix will contract or expand depending on the stress involved. The Contractometer includes a stand, the handle, body, weight system with (2) weights, circular scale, and (2) helixes. Constructed of plastic, acrylic and stainless steel.

ACCESSORIES

Bench Testing

Model No. EFTF.SM000.11 - 4,000 ml Pyrex Beaker

Model No. EFTF.SM000.12 - Titanium Anode Basket

Model No. EFTF.SM000.13 - Stirring Hot Plate, 115 Volt

Model No. EFTF.SM000.14 - Precision 10A Power Supply with Timer, 115 Volt

Tank Mounting

Model No. EFTF.SM000.12 - Titanium Anode Basket

Model No. EFTF.SM000.14 - Precision 10A Power Supply with Timer, 115 Volt

Model No. EFTF.SM000.17 - Tank Mounting Bracket for Contractometer

Model No. EFTF.SM000.21 - 1-20V Output, 0-10A Output Current Rectifier

Model No. EFTF.SM000.22 - Replacement Top Bushing for Contractometer

Model No. EFTF.SM000.23 - Replacement Set of (2) Weight Rollers and Supports for Contractometer

Model No. CERT.SM000.15 - MTT Certification that Fixture Meets Standard Requirements

SPARE PARTS

Model No. EFTF.SM000.15 - Extra Helix for Spiral Contractometer

Constructed of stainless steel and plastic. The spiral (helix) mounts on the Contractometer in a manner that permits plating on the entire outside surface of the spiral (helix) and discourages deposition on the inside of the spiral (helix). Thus, there is no need to estimate the surface area that has been plated.

Model No. EFTF.SM000.16 - Spare Parts Kit - (2) Set Screw 4-40, (2) Set Screw 6-32, (4) Set Screw 6-32 by 1/4", (4) Set Screw 6-32 by 1/2", (16) #6 Flat Washers, (2) #6 Hex Nuts, (4) Flat Washers, (8) Pan Head 6-32 by 1/2", (8) Pan Head 8-32, (4) Pan Head 4-40, (8) Pan Head by 1/4", (1) Hex Ball Driver 1/16", (1) Hex Ball Driver 0.05", (1) Screwdriver #1 Tip, (1) 6" Long Scale, (1) 7/64" Drill Bit, (1) 13/64 Drill Bit, (2) Calibration Weights

COMMON SIZE ADAPTERS

Not available