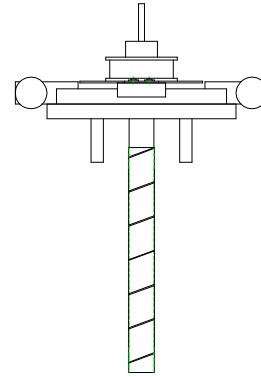


MTT GEARLESS SPIRAL CONTRACTOMETER



Specimen:	Type	Test stress levels of plating tanks
Fixture:	Construction	Acrylic, plastic, and stainless steel
	Temperature	Ambient
	Mounting	Titanium anode basket
	Weight	11 lbs approximately
	Dimensions	8" x 6" x 12"
Standard	Manufactured in accordance with ASTM B636	

Model No.ASTM.B0636.10 - Gearless 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 the handle, body, weight system with (2) weights, circular scale, and the helix. Constructed of plastic, acrylic and stainless steel in accordance with ASTM B636.

MODEL NO. ASTM.B0636.10

MEASUREMENT, INTERNAL, STRESS, PLATED,

ACCESSORIES

ACC.B0636.1011 - 4,000 ml Pyrex Beaker
ACC.B0636.1012 - Titanium Anode Basket
ACC.B0636.1013 - Stirring Hot Plate, 115 Volt
ACC.B0636.1014 - Precision 10A Power Supply with Timer, 115 Volt
ACC.B0636.1016 - Spare Parts Kit (screws, drills, etc.)
ACC.B0636.1017 - Tank Mounting Bracket for Contractometer
ACC.B0636.1020 - Complete Benchtop Gearless Spiral Contractometer System
ACC.B0636.1021 - 1-20V Output, 0-10A Output Current Rectifier

SPARE PARTS

SPA.B0636.1015 - Extra Helix for Gearless Spiral Contractometer Constructed of stainless steel and plastic

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

SCOPE: <http://www.astm.org/Standards/B636.htm>

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Standard Test Method for Measurement of Internal Stress of Plated Metallic Coatings with the Spiral Contractometer

1.1 This test method covers the use of the spiral contractometer for measuring the internal stress of metallic coatings as produced from plating solutions on a helical cathode. The test method can be used with electrolytic and autocatalytic deposits.

1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.3 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

Extracted, with permission, from ASTM B636 Standard Test Method for Measurement of Internal Stress of Plated Metallic Coatings with the Spiral Contractometer, copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19482. A copy of the complete standard may be purchased from ASTM International, www.astm.org

Material Testing Technology

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