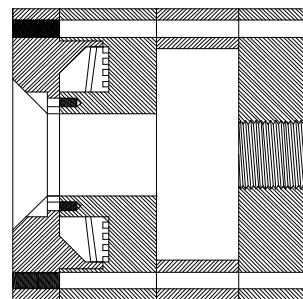
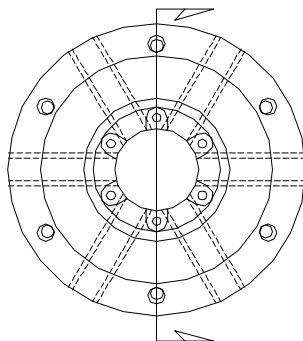


# **TENSILE TESTING OF THIN WALL TUBING FOR SPECIMEN DIAMETERS OF 1" - 2.25"**



|           |              |                                              |
|-----------|--------------|----------------------------------------------|
| Specimen: | Diameter     | 1" to 2.25"                                  |
|           | Length       | 12" minimum                                  |
| Fixture:  | Construction | High strength steel with a protective finish |
|           | Temperature  | Room temperature                             |
|           | Mounting     | 1.5" -12 threaded couplings                  |
|           | Capacity     | 20,000 lbs                                   |
|           | Weight       | 75 lbs                                       |
|           | Dimensions   | 6.5" diameter x 14"                          |
|           | Standard     | Manufactured in accordance with ASTM A370    |

## **Model No. ASTM.A0370.71 - Wedge Action Tensile Testing on Thin Wall Tubing.**

The tubular specimen grip includes two grip face assemblies that are attached to the test machine at the upper and lower positions. Each grip assembly has six wedge action jaws that are eccentrically loading around a tubular specimen from 1" to 2.25" OD. Each jaw has serrated grip faces. The jaws are brought together by a central loading gear. Additional jaw loading screws maybe be used to apply additional lateral support for high load specimens. The jaw faces are replaceable and interchangeable if needed. Please specify loading thread size needed.

The specimen is inserted into the upper or lower grip assembly. The grips are brought together and the grip faces brought into contact with the specimen. The faces are moved together by turning a single loading bolt.

Temperature Range: Room Temperature

Capacity 20,000 lbf

Specimen Diameter: 1 to 2.25" (requires specimen ID plug, not included)

Specimen Length: 12" minimum

Weight Approx. 75 lbs (44 kg)

## **MODEL NO. ASTM.A0370.71**

## **MECHANICAL, STEEL, ASTM. TENSILE, TENSION,**

### **ACCESSORIES**

ACC.A0370.7101.A - Wedge Action Jaws for Specimen Diameters from 1" to 2.25"

ACC.A0370.7102 - ID Plug - please specify ID when ordering

**Upper and lower fixture attachment is supplied with 1.5" -12 female coupling. (Common adapter sizes include:)**

Model No. M03S48 - 1.25" Male Clevis (Type D) to 1.5" -12 Threaded Stud

Model No. S48S42 - 1.5" -12 to 1.25" -12 Threaded Step Stud

Model No. S151206 - 1.5" -12 x 6" Fatigue Rated Stud

Model No. S60S48 - 2" -12 to 1.5" -12 Threaded Step Stud

Model No. LN48 - 1.5" -12 Threaded Locking Nut with Knurled OD

### **SPARE PARTS**

Please contact us for spare or replacement parts.

### **REFERENCE DOCUMENT AND TEST METHOD SCOPE:**

<http://www.astm.org/Standards/A370.htm>

ASTM A370 - 15

Standard Test Methods and Definitions for Mechanical Testing of Steel Products

1.1 These test methods cover procedures and definitions for the mechanical testing of steels, stainless steels, and related alloys. The various mechanical tests herein described are used to determine properties required in the product specifications. Variations in testing methods are to be avoided, and standard methods of testing are to be followed to obtain reproducible and comparable results. In those cases in which the testing requirements for certain products are unique or at variance with these general procedures, the product specification testing requirements shall control.

1.2 The following mechanical tests are described: (Sections)

Tension - 6 to 14, Bend - 15, Hardness - 16, Brinell - 17, Rockwell - 18, Portable - 19, Impact - 20 to 29, Keywords - 30.

1.3 Annexes covering details peculiar to certain products are appended to these test methods as follows: (Annex)

Bar Products - A1.1, Tubular Products - Annex A2, Fasteners - Annex A3, Round Wire Products - Annex A4, Significance of Notched-Bar Impact Testing - Annex A5, Converting Percentage Elongation of Round Specimens to Equivalents for Flat Specimens - Annex A6, Testing Multi-Wire Strand - Annex A7, Rounding of Test Data - Annex A8, Methods for Testing Steel Reinforcing Bars - Annex A9, Procedure for Use and Control of Heat-Cycle Simulation - Annex A10.

1.4 The values stated in inch-pound units are to be regarded as the standard.

1.5 When this document is referenced in a metric product specification, the yield and tensile values may be determined in inch-pound (ksi) units then converted into SI (MPa) units. The elongation determined in inch-pound gauge lengths of 2 or 8?in. may be reported in SI unit gauge lengths of 50 or 200 mm, respectively, as applicable. Conversely, when this document is referenced in an inch-pound product specification, the yield and tensile values may be determined in SI units then converted into inch-pound units. The elongation determined in SI unit gauge lengths of 50 or 200 mm may be reported in inch-pound gauge lengths of 2 or 8?in., respectively, as applicable.

1.5.1 The specimen used to determine the original units must conform to the applicable tolerances of the original unit system given in the dimension table not that of the converted tolerance dimensions.

NOTE 1: This is due to the specimen SI dimensions and tolerances being hard conversions when this is not a dual standard. The user is directed to Test Methods A1058 if the tests are required in SI units.

1.6 Attention is directed to ISO/IEC 17025 when there may be a need for information on criteria for evaluation of testing laboratories.

1.7 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.

*Material Testing Technology*

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