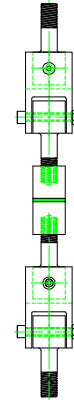
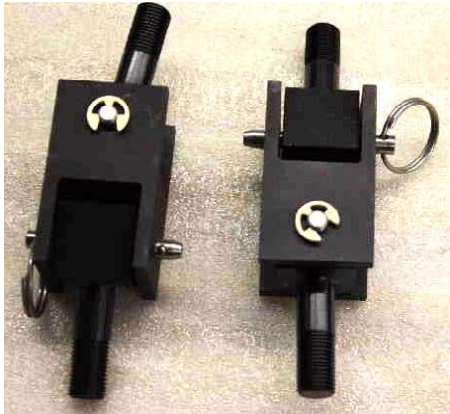


FLATWISE TENSION FIXTURE WITH 5 SETS OF 1" ROUND BONDING BLOCKS - UNIVERSAL JOINT TYPE (CS)



Specimen:	Diameter	Up to 1"
	Thickness	Any
Fixture:	Construction	High strength steel with protective finish
	Temperature	-120 to 250°F (-85 to 122°C)
	Mounting	5/8"-18 threaded studs
	Capacity	5,000 lbs (22.2 kN)
	Bonding Block	Supplied with (5) sets of 1" diameter bonding blocks
	Weight	10 lbs
	Dimensions	3" x 3" x 12"
	Standard	Manufactured in accordance with ASTM C633-17

Model No. ASTM.C0633.10 - Flatwise Tension Fixture with Five Sets of 1" Round Bonding Blocks. The five sets of bonding blocks are constructed from steel with a protective finish. Supplied with (2) 5/8"-18 loading studs and locking nuts. Also supplied with a set of threaded loading rods to fit the bonding blocks. These rods thread into the corresponding specimen bonding blocks. Constructed in accordance with ASTM C633.

MODEL NO. ASTM.C0633.10

ASTM, TENSION, ADHESION, ADHESIVE,

ACCESSORIES

Model No. ACC.C0633.1001 - 1" Diameter Aluminum Bonding Blocks
Model No. ACC.C0633.1002 - 1" Diameter Stainless Steel Bonding Blocks
Model No. ACC.C0633.1003 - 1" Square Aluminum Bonding Blocks
Model No. ACC.C0633.1004 - 1" Square Stainless Steel Bonding Blocks
Model No. ACC.C0633.1005 - 1" Square Steel Bonding Blocks
Model No. ACC.C0633.1006 - 2" Square Aluminum Bonding Blocks
Model No. ACC.C0633.1007 - 2" Square Stainless Steel Bonding Blocks
Model No. ACC.C0633.1008 - 2" Square Steel Bonding Blocks

SPARE PARTS

Model No. SPA.C0633.1001 - 1" Diameter Steel Bonding Blocks

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

<http://www.astm.org/Standards/C633.htm>

ASTM C633-13

Standard Test Method for Adhesion or Cohesion Strength of Thermal Spray Coatings

1.1 This test method covers the determination of the degree of adhesion (bonding strength) of a coating to a substrate or the cohesion strength of the coating in a tension normal to the surface. The test consists of coating one face of a substrate fixture, bonding this coating to the face of a loading fixture, and subjecting this assembly of coating and fixtures to a tensile load normal to the plane of the coating. It is adapted particularly for testing coatings applied by thermal spray, which is defined to include the combustion flame, plasma arc, two-wire arc, high-velocity oxygen fuel, and detonation processes for spraying feedstock, which may be in the form of, wire, rod, or powder.

Note 1—Thermal spray coating materials include ceramics, such as metal oxides or carbides, and metals. In some cases, a coating is formed of different spray materials, such as an oxide layer sprayed onto a sprayed metal-bonding layer. The substrate generally is a metal, but may be a ceramic, such as an oxide or graphite.

1.2 Usually this test method is performed at ambient temperature. Higher temperature testing is restricted by the need for a suitable adhesive bonding agent. For certain fundamental investigations, it is suggested that very low (cryogenic) temperature be used.

1.3 This test method is limited to testing thermal spray coatings that can be applied in thickness greater than 0.015 in. (0.38 mm). The limitation is imposed because an adhesive bonding agent is used in the test. Those bonding agents established so far for this method tend to penetrate thermal spray coatings and may invalidate results unless the coatings are thick enough to prevent penetration through the coating. Further development may establish that thin layers of certain types of especially dense coatings may be tested satisfactorily. Alternatively, new adhesive bonding agents that would allow reduction of the minimum thickness limitation may become available.

1.4 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.5 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 limitations prior to use.

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