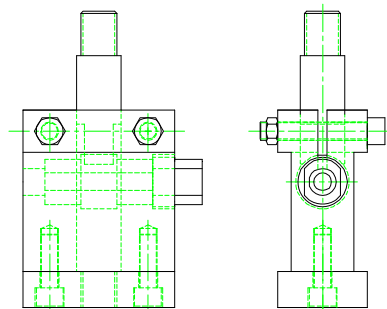


## DOUBLE-SHEAR TEST FIXTURE WITH ALUMINUM ALLOYS WITH .25", .375", .5" DIAMETER INSERTS



Specimen:	Diameter	1/4", 3/8" and 1/2"
	Length	3" typical
Fixture:	Construction	High strength steel with protective finish
	Temperature	-120 to 250°F (-85 to 122°C)
	Mounting	1"-14 stud top, 1" -14 coupling bottom
	Capacity	20,000 lbs (90kN)
	Weight	14 lbs approximately
	Dimensions	Assembled - 2" X 4" X 8"
	Standard	Manufactured in accordance with ASTM B769

### Model No. ASTM.B0769.10 - Double-Shear Test Fixture for Aluminum Alloy

The fixture consists of a high strength load anvil that supports the aluminum test specimen at both ends with hardened and ground loading bushings. The anvil assembly is supplied with a 1.75" deep clearance section for the failed specimen and bushing. The loading anvil is supplied with a 1"-14 threaded coupling for mounting to your test machine. The loading rod has a square section for guidance in the loading anvil. The loading rod has a radiused loading end to mate with the loading bushing. The end of the loading rod is supplied with a 1"-14 threaded stud and knurled locking nut. The fixture is supplied with 3 sets of support and loading bushings for rod diameters of 0.250", 0.375" and 0.500". Bushings are hardened to 60-62 HRC. Constructed of high strength steel in accordance with ASTM B769.

## **MODEL NO. ASTM.B0769.10**

### **ASTM, SHEAR, TESTING, ALUMINUM, ALLOY,**

#### **ACCESSORIES**

Model No. ACC.B0769.1004 - Set of (3) Bushings with 5/8" ID

Model No. ACC.B0769.1005 - Set of (3) Bushings with 3/4" ID

#### **Upper and lower fixture attachment is supplied with 1" -14 female coupling. (Common adapter sizes include:)**

Model No. M03S36 - 1.25" Male Clevis (Type D) to 1" -14 Threaded Stud

Model No. S42S36 - 1.25" -12 to 1" -14 Threaded Step Stud

Model No. S48S36 - 1.5" -12 to 1" -14 Threaded Step Stud

Model No. S60S36 - 2" -12 to 1" -14 Threaded Step Stud

Model No. LN36 - 1" -14 Threaded Locking Nut with Knurled OD

#### **SPARE PARTS**

Model No. SPA.B0769.1001 - Set of (3) Bushings with 1/4" ID

Model No. SPA.B0769.1002 - Set of (3) Bushings with 3/8" ID

Model No. SPA.B0769.1003 - Set of (3) Bushings with 1/2" ID

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

<http://www.astm.org/Standards/B769.htm>

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Standard Test Method for Shear Testing of Aluminum Alloys

1.1 This test method covers double-shear testing of wrought and cast aluminum products to determine shear ultimate strengths.

Note 1

The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are provided for information only.

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.

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