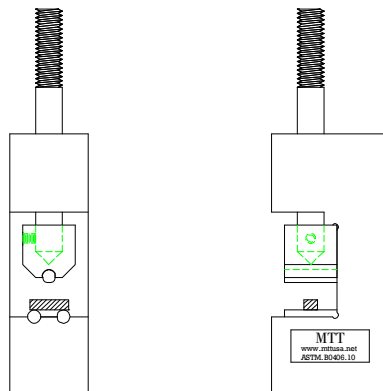


## THREE POINT TRANSVERSE RUPTURE STRENGTH FIXTURE (SS)



Specimen:      Thickness      0.2"  
                    Width              0.25"  
                    Length            0.75"

Fixture:            Construction      Stainless steel  
                    Temperature      -120 to 250°F (-85 to 122°C)  
                    Mounting          1/2"-20 stud top, 1/2" -20 coupling bottom  
                    Capacity           1,000 lbs  
                    Weight            10 lbs  
                    Dimensions       2.25" x 1.5" x 7.5"  
                    Standard          Manufactured in accordance with ASTM B406

Model No. ASTM.B0406.10- Three Point Transverse Rupture Flexure Fixture for Cemented Carbides

### Lower supports

The lower supports are ground, cemented-carbide cylinders that are 0.250"  $\pm$ 0.001" in diameter by 1.000" long. The lower cylinders will be fixed parallel and centered, spaced at 0.563". Each cylinder will be supported on a hardened and ground support anvil 1.0" wide by 2.0" long by 1.5" tall.

### Ground-cemented-carbide loading cylinder

The upper loading head is guided by twin linear bearings into the lower support. The loading head is interchangeable between a 0.25"  $\pm$ 0.001" ground, cemented-carbide cylinder and a 0.4"  $\pm$ 0.05" ground, cemented tungsten carbide ball.

The fixture accommodates a 0.2" thick by 0.25" wide by 0.75" long cemented carbide specimen. The fixture is attached to the test machine with 1/2"-20 threaded stud end on top and 1/2" -20 threaded coupling on lower base. Constructed of cemented carbide and stainless steel in accordance with ASTM B406.

## **MODEL NO. ASTM.B0406.10**

### **TRANSVERSE, RUPTURE, STRENGTH,**

#### **ACCESSORIES**

##### **Lower fixture attachment is supplied with 1/2" -20 female coupling (Common adapter sizes include:)**

Model No. M01S21 - 1/2" Male Clevis (Type B) to 1/2" -20 Threaded Stud

Model No. M02S21 - 5/8" Male Clevis (Type C) to 1/2" -20 Threaded Stud

Model No. M03S21 - 1.25" Male Clevis (Type D) to 1/2" -20 Threaded Stud

Model No. M12S21 - 12mm Male Clevis (Type O) to 1/2" -20 Threaded Stud

Model No. S36S21 - 1" -14 to 1/2" -20 Threaded Step Stud

Model No. LN21 - 1/2" -20 Threaded Locking Nut with Knurled OD

#### **SPARE PARTS**

SPA.B0406.1001 - Replacement Set of (3) Cylinders

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

<http://www.astm.org/Standards/B406.htm>

ASTM B406 - 96(2015)

Standard Test Method for Transverse Rupture Strength of Cemented Carbides

1.1 This test method covers the determination of the transverse rupture strength of cemented carbides.

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

1.3 This standard does not purport to address 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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