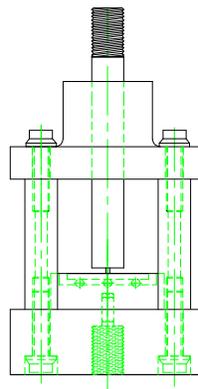


CERAMIC BIAXIAL FLEXURE STRENGTH FIXTURE (SS)



Specimen:	Diameter	1.25"
	Thickness	Different thickness
Fixture:	Construction	High strength steel with protective finish
	Temperature	-120 to 250°F (-85 to 120°C)
	Mounting	12mm male clevis top, 1/2"-20 coupling bottom
	Capacity	2,000 lbs (8.8 kN)
	Weight	10 lbs approximately
	Dimensions	Assembled 3" Dia. x 12"
	Standard	Manufactured in accordance with ASTM F394

Model No. ASTM.F0394.10 - Ceramic Biaxial Flexure Fixture

Ceramic Biaxial Flexure loading specimen supports for specimens of the following dimensions - up to 30mm x 30mm (or 30mm round) x 1mm thick specimen dimensions

The Ceramic Biaxial Flexure includes (3) 1/8" diameter support balls that are centered on a 1" diameter circumference and fixtured in a support plate. The loading head consists of a 1/16" diameter hardened and ground dowel pin. The sub-press consists of a circular base, three support columns, two linear bearings, a 1/2" diameter loading rod. The fixture is constructed from high strength steel with a protective black oxide finish in accordance with F394.

MODEL NO. ASTM.F0394.10

ASTM, BIAxIAL, FLEXURE, STRENGTH,

ACCESSORIES

Upper and 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.F0394.1001 - Extra Support Plate
SPA.F0394.1002 - Extra Set of (6) 1/8" Diameter Balls
SPA.F0394.1003 - Extra 1/2" Diameter Loading Rod

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

<http://www.astm.org/DATABASE.CART/WITHDRAWN/F394.htm>

ASTM F394-78(1996)

Test Method for Biaxial Flexure Strength (Modulus of Rupture) of Ceramic Substrates (Withdrawn 2001)

1.1 This test method covers the determination of the biaxial flexure strength (modulus of rupture) of thin ceramic substrates.

1.2 This test method is applicable to specimens in the as-fired condition or to test pieces prepared to have a certain thickness or surface finish.

1.3 This test method may be used with specimens of various thicknesses and having warpage; no limits are placed on the latter, except those mutually imposed by the specifications agreed upon between the manufacturer and the purchaser of the substrates.

1.4 The values stated in inch-pound units are to be regarded as the standard. The metric equivalents of inch-pound units may be approximate.

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 practices and determine the applicability of regulatory limitations prior to use.

Extracted, with permission, Test Method for Biaxial Flexure Strength (Modulus of Rupture) of Ceramic Substrates (Withdrawn 2001) copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428. A copy of the complete standard may be purchased from ASTM International, www.astm.org.

Material Testing Technology