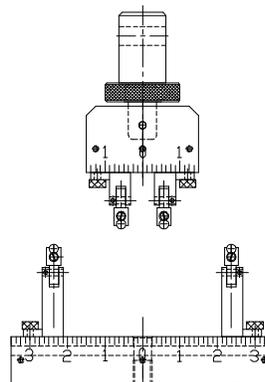
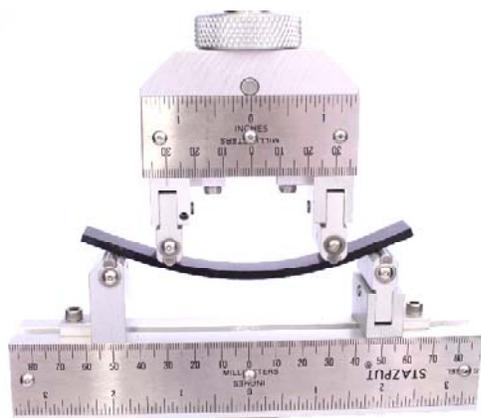


## 1" WIDE, 6" SPAN, FULLY ARTICULATING THREE & FOUR POINT FLEXURE FIXTURE WITH 4.5mm DIAMETER LOADING PINS (AL)



Specimen:	Width	Any width up to 1"
	Thickness	Any thickness up to 1/2"
	Length	Any length
Fixture:	Support Spans	Any span from 1/2" to 6"
	Supports	Articulating with 4.5mm cylindrical supports
	Construction	Aluminum with protective finish
	Temperature	Ambient temperature
	Mounting	12mm male clevis top, 1/2"-20 coupling bottom
	Capacity	350 lbs (1.5 kN)
	Weight	10 lbs approximately
	Dimensions	Assembled - 8" x 2" x 8"
Standard	Manufactured in accordance with ASTM C1211	

### Model No. ASTM.C1211.11 - Fully Articulating Three & Four Point Flexure Fixture

Specimen support spans adjustable to 6" and four point loading span adjustable to 3". The rolling and pivoting specimen loading pins are 4.5mm in diameter and accommodate specimens up to 1" wide. Capacity: 350 lbs (1.5 kN) at room temperature. Fixture is constructed from aluminum and stainless steel in accordance with ASTM C1211.

Specimen supports: Each Support incorporates a free rolling loading pin of 4.5mm diameter. One of the supports is free to pivot as much as 7° in either direction to provide complete seating and maximum contact to the test specimen.

Lower Support Base: The span of the support is measured along a center finding scale located on the front surface of the 7.0" support base. The base may be used on a compression platen or mounted with the 1/2"-20 threaded hole.

3 & 4 Point Loading Support Base: The span of the support is measured along a center finding scale located on the the front surface of the support base. The 3 & 4 point loading head is pivoted and may be allowed to float freely or can be locked rigid with a locking nut. The 3 & 4 point loading head will be supplied with 12mm male clevis pin type adapter with 6mm diameter dowel pin hole.

# **MODEL NO. ASTM.C1211.11**

## **ASTM, CERAMIC, FLEX, COMPRESSION**

### **ACCESSORIES**

ACC.C1211.1101 - Extra Set of (4) 1/4" Diameter Loading Pins  
ACC.C1211.1102 - Extra Set of (4) Rockers and 1 Fixed Support for 1/4" Pins  
ACC.C1211.1103 - Extra Set of (4) 2.5mm Diameter Loading Pins  
ACC.C1211.1104 - Extra Set of (4) Rockers and 1 Fixed Support for 2.5mm Pins  
ACC.C1211.1105 - Extra Set of (4) 9mm Diameter Loading Pins  
ACC.C1211.1106 - Extra Set of (4) Rockers and 1 Fixed Support for 9mm Pins  
ACC.C1211.1107 - 1.25" Male Clevis for 4 Point Loading Head  
ACC.C1211.1108 - 5/8" Male Clevis for 4 Point Loading Head  
ACC.C1211.1109 - 1/2" Male Clevis for 4 Point Loading Head

### **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.C1211.1101 - Extra Set of (4) 4.5mm Diameter Loading Pins  
SPA.C1211.1102 - Extra Set of (4) Rockers and 1 Fixed Support for 4.5mm Pins  
SPA.C1211.1103 - Extra Set of (2) Anvil/Rocker/Roller Assemblies

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

<https://www.astm.org/Standards/C1211.htm>

ASTM C1211 - 18

Standard Test Method for Flexural Strength of Advanced Ceramics at Elevated Temperatures

1.1 This test method covers determination of the flexural strength of advanced ceramics at elevated temperatures. 2 Four-point-1/4-point and three-point loadings with prescribed spans are the standard as shown in Fig. 1. Rectangular specimens of prescribed cross-section are used with specified features in prescribed specimen-fixture combinations. Test specimens may be 3 by 4 by 45 to 50 mm in size that are tested on 40-mm outer span four-point or three-point fixtures. Alternatively, test specimens and fixture spans half or twice these sizes may be used. The test method permits testing of machined or as-fired test specimens. Several options for machining preparation are included: application matched machining, customary procedures, or a specified standard procedure. This test method describes the apparatus, specimen requirements, test procedure, calculations, and reporting requirements. The test method is applicable to monolithic or particulate- or whisker-reinforced ceramics. It may also be used for glasses. It is not applicable to continuous fiber-reinforced ceramic composites.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.3 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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.

1.4 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

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