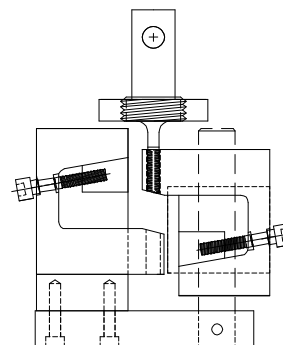
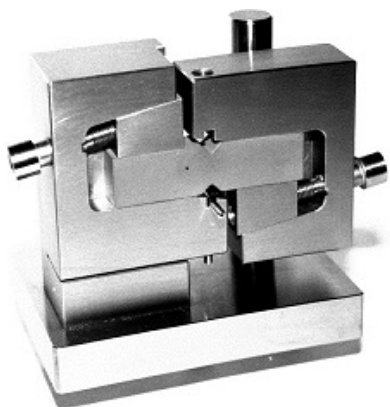


V-NOTCHED BEAM (IOSIPESCU SHEAR) FIXTURE - ADJUSTABLE WEDGES STYLE (SS)



Specimen:	Width	0.75"
	Thickness	0.03" to 0.5"
	Length	3"
	Notch	90 degree with 0.05" radius minimum

Fixture:	Construction	Stainless steel
	Temperature	-240 to 600°F (-152 to 318°C)
	Mounting	1/2"-20 stud top, platen bottom (platen not included)
	Capacity	10,000 lbs (44.4 kN)
	Weight	15 lbs approximately
	Dimensions	Assembled - 5.8" x 3.5" x 5"
	Standard	Manufactured in accordance with ASTM C1292

Model No. ASTM.C1292.20 - V-Notched Beam (Iosipescu Shear) Test Fixture with adjustable wedge type grips. The fixture uses compression to determine the interlaminar shear strength of ceramic specimens with two centrally located notches, while providing anti-buckling support. The fixture includes the top plate, adjustable top jaw, base plate, and adjustable bottom jaw. This fixture accommodates specimens 30mm long by 15mm wide by 1/8" to 1/2" thick. The fixture is used between 2 platens (platens not included). Constructed of stainless steel in accordance with ASTM C1292.

MODEL NO. ASTM.C1292.20

ASTM, IOSIPESCU, SHEAR, V-NOTCH,

ACCESSORIES

ACC.C1292.2001 - Extra Set of (2) Jaws for 1/2" Specimen
ACC.C1292.2002 - Extra Set of (2) Jaws for 5/8" Specimen
ACC.C1292.2003 - Extra Set of (2) Jaws for 7/8" Specimen
ACC.C1292.2004 - Extra Set of (2) Jaws for 1" Specimen
ACC.C1292.2005 - Extra Set of (2) Jaws for 1.125" Specimen
ACC.C1292.2006 - Extra Set of (2) Jaws for 1.25" Specimen

Upper fixture attachment is supplied with 1/2" -20 male studs (Common adapter sizes include:)

Model No. M01C21 - 1/2" Male Clevis (Type B) to 1/2" -20 Threaded Coupling
Model No. M02C21 - 5/8" Male Clevis (Type C) to 1/2" -20 Threaded Coupling
Model No. M03C21 - 1.25" Male Clevis (Type D) to 1/2" -20 Threaded Coupling
Model No. M12C21 - 12mm Male Clevis (Type O) to 1/2" -20 Threaded Coupling
Model No. C36C21 - 1" -14 to 1/2" -20 Threaded Coupling
Model No. LN21 - 1/2" -20 Threaded Locking Nut with Knurled OD

SPARE PARTS

SPA.C1292.2001 - Extra 5/16" -24 to 1/2" -20 Threaded Step Stud Adapter
SPA.C1292.2002 - Extra Set of (2) Jaws for 3/4" Specimen
SPA.C1292.2003 - Extra Set of (2) Screws with Retaining Rings
SPA.C1292.2004 - Extra Bearing

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

<http://www.astm.org/Standards/C1292.htm>
ASTM C1292-10

Standard Test Method for Shear Strength of Continuous Fiber-Reinforced Advanced Ceramics at Ambient Temperatures

1.1 This test method covers the determination of shear strength of continuous fiber-reinforced ceramic composites (CFCCs) at ambient temperature. The test methods addressed are (1) the compression of a double-notched test specimen to determine interlaminar shear strength and (2) the Iosipescu test method to determine the shear strength in any one of the material planes of laminated composites. Test specimen fabrication methods, testing modes (load or displacement control), testing rates (load rate or displacement rate), data collection, and reporting procedures are addressed.

1.2 This test method is used for testing advanced ceramic or glass matrix composites with continuous fiber reinforcement having uni-directional (1-D) or bi-directional (2-D) fiber architecture. This test method does not address composites with (3-D) fiber architecture or discontinuous fiber-reinforced, whisker-reinforced, or particulate-reinforced ceramics.

1.3 The values stated in SI units are to be regarded as the standard and are in accordance with .

1.4 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. Specific hazard statements are given in 8.1 and 8.2.

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