MODEL NO. ASTM.D5379.16 ASTM, IOSIPESCU, SHEAR, V-NOTCHED,

IOSIPESCU SHEAR FIXTURE COMPRESSION MODE (CS)



MTT



Specimen:	Width	0.75"
	Thickness	Up to 0.5"
	Length	3.0"
	Notch	90 degree with 0.05" radius minimum
Fixture:	Construction	High strength steel with protective black oxide finish
	Temperature	-120 to 250°F (-85 to 122°C)
	Mounting	Top: 1/2" -20 threaded stud
		Bottom: platen
	Capacity	10,000 lbs (44 kN)
	Weight	15 lbs approximately
	Dimensions	Assembled - 3" x 5" x 5"
	Standard	Manufactured in accordance with ASTM D5379

Model No. ASTM.D5379.16 - V-Notched Beam (Iosipescu Shear) Test Fixture with adjustable wedge type grips. Fixture includes wedge grip inserts for 0.75" thick Iosipescu shear specimens. Constructed from low carbon steel with a protective black oxide finish in accordance with ASTM D5379.

Capacity: 10,000 lbs Wedge specimen width: 19mm (0.75") Specimen Thickness: from 0.75mm to 12.7mm (0.03" to 0.50") Upper Adapter: 1/2" -20 Threaded Stud Weight: approximately 15 lbs

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ACCESSORIES

ACC.D5379.1601 - Extra Set of (2) Jaws for 1/2" Specimen ACC.D5379.1602 - Extra Set of (2) Jaws for 5/8" Specimen ACC.D5379.1603 - Extra Set of (2) Jaws for 7/8" Specimen ACC.D5379.1604 - Extra Set of (2) Jaws for 1" Specimen ACC.D5379.1605 - Extra Set of (2) Jaws for 1.125" Specimen ACC.D5379.1606 - 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.D5379.1601 - Extra 5/16" -24 to 1/2" -20 Threaded Step Stud Adapter SPA.D5379.1602 - Extra Set of (2) Jaws for 3/4" Specimen SPA.D5379.1603 - Extra Set of (2) Screws with Retaining Rings SPA.D5379.1604 - Exra Bearing

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

http://www.astm.org/Standards/D5379.htm

ASTM D5379/D5379M-12

Standard Test Method for Shear Properties of Composite Materials by the V-Notched Beam Method

1.1 This test method covers the shear properties of composite materials reinforced by high-modulus fibers. The composite materials are limited to continuous-fiber or discontinuous-fiber-reinforced composites in the following material forms: 1.1.1 Laminates composed only of unidirectional fibrous laminae, with the fiber direction oriented either parallel or perpendicular to the loading axis. 1.1.2 Laminates composed only of woven fabric filamentary laminae with the warp direction oriented either parallel or perpendicular to the loading axis. 1.1.3 Laminates composed only of unidirectional fibrous laminae, containing equal numbers of plies oriented at 0 and 90° in a balanced and symmetric stacking sequence, with the 0° direction oriented either parallel or perpendicular to the loading axis. 1.1.4 Short-fiber-reinforced composites with a majority of the fibers being randomly distributed. Note 1—This shear test concept was originally developed without reference to fiber direction for use on isotropic materials such as metals or ceramics. 1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard. 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 and health practices and determine the applicability of regulatory limitations prior to use.

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