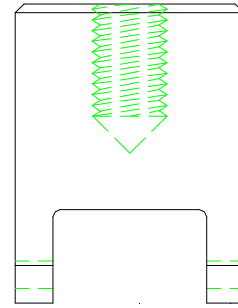


CLEVIS TYPE YOKE SET WITH 5 SETS OF ALUMINUM LOADING BLOCKS



Specimen:	Width	Up to 1" (25.4mm)
	Thickness	0.118" to 0.197 (3 to 5mm)
	Length	5" (127mm)
Fixture:	Construction	High strength steel with protective black oxide finish
	Temperature	-120 to 250°F (-85 to 122°C)
	Mounting	1/2" -20 threaded couplings
	Capacity	100 lbs (440 N)
	Weight	5 lbs approximately
	Dimensions	1.5" x 1" x 5" when bonded to specimen
	Standard	Manufactured in accordance with ASTM D5528, D6115 and D6671

Model No. ASTM.D6115.20 - Clevis Pin Type Yoke Set

Set of (2) precision machined clevis type yoke set with 3/16" diameter loading pins and retaining hairpins. The yoke accommodates specimens up to 1" in width. Each clevis is supplied with a 1/2" -20 female thread for attachment with fatigue rated loading studs and nuts. Includes five sets of (2) aluminum loading blocks that measure 1" x 1" x 3/4". The clevis set is constructed from high strength steel with a protective finish in accordance with ASTM D5528, D6115 and D6671.

MODEL NO. ASTM.D6115.20

ASTM, MODE I, FATIGUE, DELAMINATION,

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.D6115.2001 - Extra Set of (2) 3/16" diameter pins with retaining hairpins
SPA.D6115.2002 - Extra Set of (2) 1" x 1" x 3/4" aluminum loading blocks

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

<http://www.astm.org/Standards/D6115.htm>

ASTM D6115 - 97(2011)

Standard Test Method for Mode I Fatigue Delamination Growth Onset of Unidirectional Fiber-Reinforced Polymer Matrix Composites

1.1 This test method determines the number of cycles (N) for the onset of delamination growth based on the opening mode I cyclic strain energy release rate (G), using the Double Cantilever Beam (DCB) specimen shown in . This test method applies to constant amplitude, tension-tension fatigue loading of continuous fiber-reinforced composite materials. When this test method is applied to multiple specimens at various G-levels, the results may be shown as a G-N curve, as illustrated in Fig 2.

1.2 This test method is limited to use with composites consisting of unidirectional carbon fiber tape laminates with single-phase polymer matrices. This limited scope reflects the experience gained in round robin testing. This test method may prove useful for other types and classes of composite materials, however, certain interferences have been noted (see Section 6.5 of Test Method D 5528).

1.3 The values stated in SI units are to be regarded as standard. The values provided in parentheses are for information only.

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.

Extracted, with permission, from ASTM D6115 Standard Test Method for Mode I Fatigue Delamination Growth Onset of Unidirectional Fiber-Reinforced Polymer Matrix Composites, 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

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