

(6) POSITION MULTI-PURPOSE CREEP TESTING STAND- DEAD WEIGHT (FLEXURE)



Model No. ASTM.D2990.22

6 Position Top Loaded Flexure Creep Testing Stand for flexural creep testing in accordance with ASTM D2990 and other creep testing methods. The stand is constructed from stainless steel. The 0.500" diameter flexure supports are adjustable to fixed 1.000", 2.000" or 4.000" span. Items supplied with the test stand include (6) 0.500" diameter self-aligning loading pins, (6) 1 inch displacement dial gauge (0.001" graduations), (6) loading shot weight cups and trays, vibration isolation pad for each leg of the stand, one specimen alignment tool, (6) 5 pound slotted weights, (20) 1 pound slotted weights and 10 pounds of steel shot.



Specimen lower support span: Fixed 1", 2" or 4"
 Loading supports: 1/2" diameter loading pins
 Three point loading head: 1/2" diameter loading pin - Linear bearing guided
 Specimen widths: up to 1.0"
 Maximum Displacement of midspan: 1.0"
 Capacity: 10 lbs flexure load per Station.
 Platform: Table or floor mount (Table not included)
 Overall Size: 9" deep by 36" wide by 20" tall
 Temperature Range: -240 to 600°F (-152 to 318°C)
 Construction: Stainless Steel

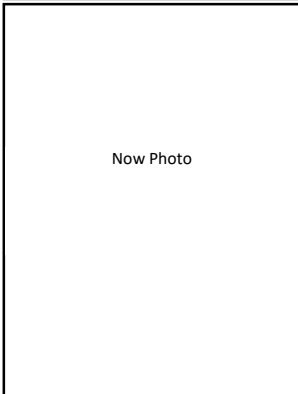


(2) 1/2" diameter supports
 1/2" Loading nose
 Specimen
 Loading Bracket
 Alignment bearing

Model No. CHAM.BO150.22 - Modified Oven
 Chamber oven modified to fit Creep Stand listed above. Used for temperatures up to 150°C.

Options:

Different diameter supports and noses
 3 Position Stand



Items included with D2990.22
 Frame
 (6) Room Temperature 1" dial gages
 (6) Weight Trays
 (1) Specimen Alignment Tool
 (24) 1.0 lb Calibrated Weights
 (6) 1/2 lb Calibrated Weights
 10 lbs Steel Shot
 (5) Isomode Vibration isolation pads

Options: Extra Slotted Weights

SCW.0005 - 1/2 Pound Slotted Creep Stand Weight

MODEL NO. ASTM.D2990.22

ASTM, MISC, CREEP

Model No. ASTM.D2990.26 - 6 Position Tensile Creep of Plastic, Polymer and Rubber Materials. Tensile creep dead loaded stand for elevated temperature testing. Each test station is capable of dead loads between 0.5 to 10.0 lbf. Each test station is supplied with a matching set of eccentric roller grips for high elongation plastic, polymer or rubber specimens. Each test station is supplied with a linear scale back-dropped behind the specimen for visual displacement measurements. Supplied with (30) 1 lb weights and (1) 10 lb can of steel shot.

Specimen widths up to 1.0"

Capacity 10 lbs tensile load, per station

Platform Table or floor mount (Table not included)

Overall Size 11" deep by 36" wide by 20" tall

Temperature Range -40°F to 200°F (-40°C to 90°C)

<http://www.astm.org/Standards/D2990.htm>

ASTMD2990-09

Standard Test Methods for Tensile, Compressive, and Flexural Creep and Creep-Rupture of Plastics

1.1 These test methods cover the determination of tensile and compressive creep and creep-rupture of plastics under specified environmental conditions (see 3.1.3).

1.2 While these test methods outline the use of three-point loading for measurement of creep in flexure, four-point loading (which is used less frequently) can also be used with the equipment and principles as outlined in Test Methods D 790.

1.3 For measurements of creep-rupture, tension is the preferred stress mode because for some ductile plastics rupture does not occur in flexure or compression.

1.4 Test data obtained by these test methods are relevant and appropriate for use in engineering design.

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

1.6 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. A specific warning statement is given in 6.8.2.

Note 1-This standard and ISO 899 Parts 1 and 2 address the same subject matter, but differ in technical content (and results cannot be directly compared between the two test methods). ISO 899 Part 1 addresses tensile creep and creep to rupture and ISO 899 Part 2 addresses flexural creep. Compressive creep is not addressed in ISO 899.

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