

Products A-Z » Test & measurements » Interactive Guide to Strain Measurement Technology » Tech Notes » TN-505

 Product Support

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## Test Profile

# Dynamic (Cyclic) Stress Analysis

### Operating Temperature Range

Selection guidelines for temperatures in the range of:

#### -100 deg to +150 deg F (-75 deg to +65 deg C)

Test Duration	>10 <sup>4</sup> hrs	>10 <sup>4</sup> hrs
Accuracy*	Moderate	Moderate
Cyclic Endurance	10 <sup>7</sup> ~ at ± 2000 microstrain	10 <sup>7</sup> ~ at ± 2400 microstrain
Gage Series	ED	WD
M-Bond Adhesive	200, AE-10	AE-10, AE-15

#### -320 deg to +500 deg F (-195 deg to +260 deg C)

Test Duration	>10 <sup>4</sup> hrs	>10 <sup>4</sup> hrs
Accuracy*	Moderate	Moderate
Cyclic Endurance	10 <sup>7</sup> ~ at ± 2000 microstrain	10 <sup>5</sup> ~ at ± 2300 microstrain
Gage Series	WD	WD
M-Bond Adhesive	600, 610	600, 610

\* **Please Note** : It is inappropriate to quantify "accuracy" as used in this table without consideration of various aspects of the actual test program and the instrumentation used. In general, "moderate" for stress analysis purposes is in the 2 to 5% range, "high" in the 1 to 3% range, and "very high" 1% or better.



Reference Table