Test Profile

Transducer Gaging

Operating Temperature Range

Selection guidelines for temperatures in the range of:

-50° to +150° F (-45° to +65° C)

Test Duration	$<10^4$ hrs	$<10^6$ hrs
Accuracy*	1 to 5%	1 to 5%
Cyclic Endurance	$<10^6$ ~at ± 1300 microstrain	$<10^6$ ~ at ± 2400 microstrain
Gage Series	CEA, EA	CEA
M-Bond Adhesive	AE-10, AE-15	AE-15

--50° to +200° F (-45° to +95° C)

Test Duration	$<10^4$ hrs
Accuracy*	Better than 0.2%
Cyclic Endurance	10^6 ~ at ± 1500 microstrain
Gage Series	N2A
M-Bond Adhesive	600, 610, 43-B

-50° to +300° F (-45° to +150° C)

Test Duration	$<10^4$ hrs
Accuracy*	0.2 to 0.5%
Cyclic Endurance	10^6 ~ at ± 1600 microstrain
Gage Series	WA, SA
M-Bond Adhesive	610

-320° to +350° F (-195° to +175° C)

Test Duration	$<10^4$ hrs
Accuracy*	Better than 0.5%
Cyclic Endurance	10^6 ~ at ± 1800 microstrain
Gage Series	WK, SK
M-Bond Adhesive	610

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* **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