

Strain Gage Installations with M-Bond A-12 Adhesive

Measurements in excess of 20% strain (200 000 microstrain) are possible following the recommendations listed below.

- 1) Blend the A-12 components on a smooth surface such as a glass plate. Dispense 2 lengths of Part A (Brown) and 3 lengths of Part B (Gray), each length of equal size and at least 1-inch (25mm) long.
- 2) Blend with a spatula until the mixture is of a uniform color. Any large particles of filler material remaining should be removed. Large filler particles under the gage could result in premature gage failure. If large mixes of A-12 are to be made up, Part B may be ball milled to reduce grit size.
- 3) Cure for 2 hours at a glue line temperature of +165°F (+74°C) or 2 weeks at +75°F (+24°C).
- 4) Clamping pressure should be 5 to 20 psi (35 to 140 kN/m²).

Refer to Micro-Measurements Instruction Bulletin B-129 and Application Note TT-605 for surface preparation and gage handling procedures.

Handling Precautions

While this material is considered relatively safe to handle, contact with skin and inhalation of vapors should be avoided. Immediate washing with ordinary soap and water is effective in cleansing should skin contact occur. For eye contact, rinse thoroughly with a copious amount of water and consult a physician. For additional health and safety information, consult the Safety Data Sheet which is available upon request.

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