1.0 Scope  The determination of lamination bond quality by immersion in an oil stabilizing high temperature bath.

2.0 Applicable Documents  None

3.0 Test Specimen  Use each of the four IPC test pattern specimens H in Figures 1 through 7 shown in part 5.8.3 of this publication. Any other sample of the production boards may be used by mutual agreement between the vendor and the customer.

4.0 Apparatus

4.1 Test Oil  Commercial grade oil having a boiling and flash point higher than 300°C (572°F).

4.2 Container  Heating container capable of heating oil to 300° ± 10°C (572°F).

4.3 Stopwatch

4.4 Chamber  Circulating air chamber capable of attaining 200°C (392°F).

5.0 Procedure

5.1 Preparation

5.1.1 Saw the four coupons from specimen H. Do not cut coupons so as to introduce any shearing, bending, or breaking stresses.

5.1.2 Condition specimens by suspending in a circulating chamber at 135° ± 15°C for one hour.

5.2 Test

5.2.1 Specimens must be tested within two minutes after removal from the chamber to preclude ambient moisture from returning to specimens before flotation.

5.2.2 Remove the specimens one at a time and float on the surface of the hot oil bath, preset at 260° +6° –3° for 20 seconds +1 –0 seconds.

5.2.3 After removal from the hot oil and cooling, immerse specimens in chloethene-NU or trichlorethylene for a few seconds, then dry with compressed air.

5.2.4 Rinse in clean isopropyl alcohol and again blow dry before examination.

5.3 Evaluation  Examine each specimen for measling, blistering or delamination.