



Test Monitoring Center

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HTCBT INFORMATION LETTER 03-1
Sequence No. 4

September 22, 2003

ASTM consensus has not been obtained on this information letter. An appropriate ASTM ballot will be issued in order to achieve such consensus.

TO: CBT Mailing List

SUBJECT: 1. Air Source
2. Immersion Depth
3. Tin Corrosion

As approved by the Corrosion Bench Test Surveillance Panel, the following are changes to Test Method D 6594-01:

1. To eliminate problems associated with determining the dew point of test air, the air supply used for the test has been specified as 'clean, dry air'. Sections 6.3.3 and 9.8 have been updated accordingly and are attached.

2. The specified immersion depth has been changed to resolve inconsistencies in the test method. The immersion depth is now specified as 23 to 35 centimeters. Sections 6.3.1 and 9.6 have been modified accordingly and are attached.

3. Δ Tin has been changed from a critical parameter (primary test result) to a reported parameter (secondary test result). Section 12.2 has been modified and is attached. Section 13.1.5 has been deleted.

These changes are effective September 11, 2003.

Joe Franklin
Chairman
CBT Surveillance Panel

John L. Zalar
Administrator
ASTM Test Monitoring Center

Attachment

c: ftp://ftp.astmtmc.cmu.edu/docs/bench/htcbt/procedure_and_ils/htcbtil03-1.pdf

Distribution: Email

(Revises Test Method D 6594-01, as amended by Information Letter 02-1)

6.3.1 Heating bath, with constant temperature control within $\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$) of test temperature with an immersion depth of 23 to 35 cm. Oil baths are recommended. (**Warning** – There are exposed hot surfaces on apparatus. Avoid skin contact by use of protective equipment.)

6.3.3 *Air Supply*, use air from a clean, dry source.

9.6 Assemble the sample tube and condenser and mount the assembly so that the sample tube is submerged 23 to 35 cm in the bath with the test oil temperature set at $135 \pm 0.5^{\circ}\text{C}$.

9.8 To begin testing, connect the source of clean, dry air (5 ± 0.5 L/h) to the air tube and allow the air to flow for 168 h. Use a calibrated flow meter in setting airflow rates.

12.2 Report the concentrations of copper and lead in the new oil (C_1 in 10.5.2) and stressed oil (C_2 in 10.5.2), and the respective changes in metal concentrations (ΔC in 10.5.2).

Delete Section 13.1.5