



Test Monitoring Center

6555 Penn Avenue
Pittsburgh, PA 15206-4489
(412) 365-1000

HTCBT INFORMATION LETTER 07-1

Sequence No. 9

November 1, 2007

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: Procedural Improvements

On the October 24, 2007 conference call, the Corrosion Bench Test Surveillance Panel approved several procedural improvements, listed below, to Test Method D 6594. The modified sections are attached.

Deleted Sections – several sections were deleted as a clean up from previous changes to the method. Evaporation loss and weight change are no longer measured and subsequently Sections 6.3.5, 6.3.6, and 9.8.3 have been deleted.

Cleaning Solvent – the cleaning solvent specification was deemed to be too restrictive for wiping oil from the test apparatus and has been modified as shown.

Cleaning – The heading of Section 8.1 has been changed to more generally describe the section as “Cleaning”. The previous section title “Cleaning of Glassware” was an inaccurate description since the section covers the cleaning of other items as well.

“Dust-Free” Cabinet - Section 8.1.3 has been deleted as ‘dust-free’ is not properly defined and its use is no longer relevant to current lab practices.

Wording Revisions – several sections were reworded for clarification. These include Sections 8.3.2, 9.1 through 9.5, and 9.8.2.

Handling of Test Specimens – test coupons are only to be handling with forceps. Section 10.2 has been modified.

Gil Reinhard
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/htcbtil07-1.pdf

Distribution: Email

(Revises Test Method D 6594-06)

Delete Sections 6.3.5 and 6.3.6. Renumber existing Sections 6.3.7 through 6.3.11 as new Sections 6.3.5 through 6.3.9.

7.8 *Cleaning Solvent – Cyclohexane or Heptane*—Industrial grade. (**Warning.** Both are flammable, and health hazards.)

8.1 *Cleaning:*

Delete Section 8.1.3 and renumber existing Section 8.1.4 and subsections as new Sections 8.1.3 and subsections.

8.3.2 Remove any burrs from the drilled holes with a 1/16 in. drill bit. Using a sanding block with a specimen holder, remove all surface blemishes from both sides and all four edges of each specimen with 240-grit abrasive paper. Finish polishing with 400-grit paper wetted by acetone to remove marks from previous polishing.

Replace current 9.1 through 9.5 with the following:

9.1 Add 100 ± 1 mL of oil to the sample tube by syringe.

9.2 Place the specimen hanger onto the air tube and hang test specimens on their respective hooks.

9.2.1 Arrange the specimens on the hanger in the sequence: lead, copper, tin, and phosphor bronze.

9.3 Insert the air tube with the attached specimens into the sample tube so that the air tube rests on the bottom of the sample tube.

9.4 Place the sample tube head on the sample tube.

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

9.8.2 Remove sample tube from the bath and allow it to cool to room temperature.

Delete Section 9.8.3.

10.2 Using forceps, wash the copper specimen in heptane, and discard the other specimens.