A Program of ASTM International

Test Monitoring Center

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

TO: HTCT Mailing List

SUBJECT: Revision to Percent Deviation Calculation

At the February 11, 2009 HTCT Surveillance Panel meeting, the panel revised the procedure for calculating percent deviation. A revised Annex A1.1.2.2 of Test Method D 5579 is attached.

This change is effective 30 days after the date of this information letter.

Brian Koehler
Chairman
HTCT Surveillance Panel

John L. Zalar
Administrator
ASTM Test Monitoring Center

Attachment

c: ftp://ftp.astmtmc.cmu.edu/docs/gears/htct/procedure_and_ils/il09-1.pdf

Distribution: Email

A1.1.2.2 Calculate the percent deviation as follows:

$$\text{percent out} = \sum_{i=1}^{n}\left(\frac{Mi}{0.5R} \times \frac{Ti}{D}\right)\times 100 \qquad \text{(A1.1)}$$

where:

Mi	=	magnitude of test parameter out from specification limit at occurrence *i*,
R	=	test parameter specification range,
Ti	=	length of time the test parameter was outside of specification range at occurrence *i*, (*Ti* is assumed to be no less than the recorded data-acquisition frequency unless supplemental readings are documented.), and
D	=	test or test phase duration in same units as *Ti*.