

3.2.1 Drying Oven. Two (2) types of equipment are permitted to dry the specimens. A mechanical convection oven capable of maintaining the required temperature to within $\pm 3^\circ\text{C}$, or a Moisture Meter. Possible Moisture Meters are Model HC103 manufactured by Mettler; AQUATRAC-3E from Brabender Messtechnik GmbH and Co. KG; or FMX HydroTracer from aboni GmbH or an equivalent Moisture Meter that can provide the same drying parameters.

3.2.2 Balance, accurate to ± 0.5 mg.

3.2.3 Desiccator.

3.2.4 Shears, etc., for preparation of test pieces.

3.2.5 Crucibles, watch glasses etc., of suitable size.

3.3 Test Vehicle/Test Piece. Finished parts, suitable sections there from, or granules shall be used as test piece.

3.4 Test Time.

Calendar time:	2 days
Test hours:	49 hours
Coordination hours:	1 hour

3.5 Test Required Information. Not applicable.

3.6 Personnel/Skills. Test to be performed by trained personnel.

4 Procedure

4.1 Preparation. Suitable sections cut from finished parts or pellets shall be used as test pieces. For initial sample approval and arbitration purposes, at least three (3) test pieces, and for routine quality control, at least one (1) test piece shall be tested. For tests on pellets, care shall be taken that test pieces are truly representative of the material under test.

4.2 Conditions.

4.2.1 Environmental Conditions. Tests shall be conducted on test pieces in the as received condition (i.e., no special preconditioning).

4.2.2 Test Conditions. Deviations from the requirements of this standard shall have been agreed upon. Such requirements shall be specified on component drawings, test certificates, reports, etc.

4.3 Instructions.

4.3.1 Summary of Test Method. The test sample is weighed, dried and weighed again. From the weight difference, the moisture content is calculated.

Note: For pellets, it is recommended that portions no smaller than 5 g in weight be tested in previously dried and weighed crucibles.

4.3.2 The test pieces shall be weighed to the nearest 0.5 mg.

4.3.3 The test pieces shall be placed in the oven at $+105^\circ\text{C} \pm 3^\circ\text{C}$ for $48\text{ h} \pm 2\text{ h}$.

4.3.4 After removal from the oven, the test pieces shall be allowed to cool in a desiccator for 30 minutes ± 5 minutes at $+23^\circ\text{C} \pm 2^\circ\text{C}$, and then reweighed.

5 Data

5.1 Calculations. The moisture (water) content shall be calculated as follows:

$$W = \frac{m_1 - m_2}{m_1} * 100 \quad \text{in percent (\%) by mass}$$