

Measures the moisture content of materials



Product Description

- Accurate and simple to use
- Robust and reliable
- Portable and requires no external power source
- Versatile– many materials can be measured over a wide moisture content range
- Principle users include geotechnical engineers, building surveyors and restorers. Other substantial user groups include mining, steel production, foundries and ceramics
- Standard or large size available

Features/Functions and Applications

- Portable system comprising a vessel with an integral pressure gauge, a weighing scale and a carry case
- Moisture measurements are obtained by following a simple test procedure:
 - Prepare and weigh the material sample using the electronic balance
 - Place the sample in the Speedy vessel
 - Add the reagent to the recess in the Speedy cap and seal the vessel
 - Shake the Speedy to mix the reagent with the sample
 - Read the moisture content directly from the integral gauge

Building Restoration and Refurbishment

Building surveyors involved with diagnosing the cause of dampness in buildings use the Speedy tester to determine the moisture level in walls and floors. The Speedy complements moisture meters and hygrometers that are also used for diagnosis.

If the structure under investigation is contaminated with conductive hygroscopic salts, moisture meter readings may not truly reflect the moisture condition. Ambiguity that may be associated with interpreting moisture meter readings in contaminated material are reduced by also measuring the actual moisture content of wall or floor samples with the Speedy tester and by using a hygrometer to measure the material's equilibrium relative humidity (ERH).

The Building Research Establishment Digest 245 details how a Speedy tester is used in the context of rising dampness and diagnosis.

Solid Floors

If moisture related floor failures are to be avoided, concrete floor slabs, cementitious screeds and anhydrite screeds have to be in a dry condition before decorative floor finishes, including wood, vinyl and carpet are laid.

Many countries have adopted floor testing standards that use ERH measurement techniques whilst others use DIN18365 standard which specifies moisture content measurement techniques. The Speedy tester is used to measure the moisture content of a sample of material removed from the floor before the decorative finish is laid.

Roads and Highways

Knowledge of the moisture content of soil is crucial throughout geotechnical engineering practice. Engineers use the Speedy for field control of compacted earth embankments and other structures and to measure the water content of soil to ensure it is within specific ranges.

Confidence in the test results is crucial, but the test equipment also has to be robust and simple to use. The Speedy tester meets both of these requirements. It is recommended by the American Highway Authority and is approved by the American Society of State Highway Transportation Officials (ASSHTO) and by the American Society for Testing and Materials (ASTM).

Aggregates, Sand and Concrete

The moisture content of freshly mixed concrete affects the workability, blending, segregation, strength and drying rate of the finished product. The Speedy tester is an ideal on-site quality control tool that enables the site manager to ensure best practice is being followed. Moisture levels of aggregates and sand can be checked prior to use to ensure that the correct amount of water is added when mixing with cement. The moisture content of ready-mix concrete can be checked on site arrival to ensure it is within specification.

F-S2000D-

Standard size Speedy vessel 0-20%mc range, 6 gram sample.

Note: Calcium carbide reagent not included. Please contact for ordering information.

Supplied with:

- Calibrated pressure gauge
- Electronic balance
- Heavy duty carry case with fitted foam inserts
- Cleaning brush and cloth
- Measuring scoop
- Instructions and spare seal
- One years parts and labour warranty

F-S2000C-

Standard size Speedy vessel 0-10%mc range, 6 gram sample.

Note: Calcium carbide reagent not included. Please contact for ordering information.

Supplied with:

- Calibrated pressure gauge
- Electronic balance
- Heavy duty carry case with fitted foam inserts
- Cleaning brush and cloth
- Measuring scoop
- Instructions and spare seal
- One years parts and labour warranty

F-L2000D-

Large size Speedy vessel 0-20%mc range, 20 gram sample.

Note: Calcium carbide reagent not included. Please contact for ordering information.

Supplied with:

- Calibrated pressure gauge
- Electronic balance
- Heavy duty carry case with fitted foam inserts
- Cleaning brush and cloth
- Two steel sample pulverising balls
- Measuring scoop
- Instructions and spare seal
- Calibration certificate
- One years parts and labour warranty

F-L2000G-

Large size Speedy vessel 0-50%mc range, 20 gram sample.

Note: Calcium carbide reagent not included. Please contact for ordering information.

Supplied with:

- Calibrated pressure gauge
- Electronic balance
- Heavy duty carry case with fitted foam inserts
- Cleaning brush and cloth
- Two steel sample pulverising balls
- Measuring scoop
- Instructions and spare seal
- Calibration certificate
- One years parts and labour warranty

F-L2000C-

Large size Speedy vessel 0-10%mc range, 20 gram sample.

Note: Calcium carbide reagent not included. Please contact for ordering information.

Supplied with:

- Calibrated pressure gauge
- Electronic balance
- Heavy duty carry case with fitted foam inserts
- Cleaning brush and cloth
- Two steel sample pulverising balls
- Measuring scoop
- Instructions and spare seal
- Calibration certificate
- One years parts and labour warranty

*All prices are ex-works and exclusive of VAT.
Delivery and packing are charged according to weight and quantity.
We reserve the right to change prices and product specification without notice.*

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