

# Rice Lake TP Series Balances

APPLICATION BRIEF

## ASPHALT

Rice Lake tuning fork balances are an excellent choice for materials testing. The Rice Lake TP Series balance, TP-12K with 12000 g capacity, 0.1 g resolution, and underweigh hook and battery options is ideal for the most accurate testing results. For best use, 0.1 g resolution and below is needed. Class 3 weights are also available for superior testing and calibration.

Rice Lake balances can be used for material testing by adhering to state specific guidelines and ASTM specifications.\*

**Aggregate:** Fracture – AASHTO T2 (WISDOT modified), T11, T27, T248, T255, ASTM D4791

**Asphalt Mix:** CMM/QMP sampling, WISDOT test method 1560, T166, T209, T269, T312, ASTM D2950

*\*Please refer to your state specific guidelines*



### AASHTO T248

#### Reducing Samples of Aggregate to Testing Size

This method covers the reduction of large samples of aggregate to the appropriate size for testing. Techniques used should minimize variation in measured characteristics between the test samples selected and the entire sample. The end product should be a sample representative of the source.

### AASHTO T11

References materials finer than 75 micro m (No 200 Sieve) in mineral aggregates by washing

### AASHTO T2

Sampling of aggregates

### AASHTO T27

Sieve analysis of fine and coarse aggregates

### AASHTO T255

Total moisture content of aggregate by drying

### AASHTO T166

Bulk specific gravity of compacted asphalt mixtures using saturated surface-dry specimens. Balance must be readable to 0.1% of the sample weight.

### AASHTO M231

#### G2

General purpose balance. Balance should be readable to 0.1 g and accurate to 0.2 g or 0.1% of the test load, whichever is greater, throughout the range of use.

#### Class G5

Within any interval equal to about 10 percent of the capacity of the balance, the accuracy shall be equal to 2 g or 0.1% of the test load, whichever is greater. The maximum off-center error shall be equal to or less than 2 g.

#### G20 Balance

Within any interval equal to about 10% of the capacity of the balance, the accuracy shall be equal to 5 g or 0.1% of the test load, whichever is greater. The maximum off-center error shall be equal to or less than 5 g.

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