

# Specific Gravity Tester

## LSGT-A10



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Specific Gravity Tester LSGT-A10 are equipped to determine the theoretical maximum specific gravity of bituminous mixtures in accordance to ASTM D2041 Standard Test Method for Theoretical Maximum Specific Gravity of Bituminous Mixtures (Vacuum process). Adopts single chip machine technology to shake a loose asphalt mixtures sample submerged in water while at the same time applying vacuum into the sample and extracting all air bubble out.

### Features

- High test efficiency
- Test 2 samples at one time
- Adopts single chip machine technology
- Equipped with a high-accuracy absolute pressure sensor
- Vacuum meter showing working status of vacuum pump
- Water buffer device preventing water flow from negative pressure container into the vacuum pump

### Applications

Suitable for measuring theoretical specific gravity of bituminous mixtures. Can also be used for the calculation of the percent of air voids in compacted bituminous mixtures and the amount of bitumen absorbed by the aggregates.

### Specifications

| Model No.                | LSGT-A10                        |
|--------------------------|---------------------------------|
| Vessel Volume            | 4000 ml × 2                     |
| Power of Vacuum pump     | 160 W                           |
| Negative power           | 3.7 kPa (27.75 mmHg)            |
| Power of shaking machine | 30 W                            |
| Power supply             | AC (220±10%)V, 50Hz             |
| Dimension                | 510×520×380 mm                  |
| Optional Accessory       | Constant temperature water bath |

# Specific Gravity Tester

## Accessories and Documents List

| No. | Name                                     | Unit  | Qty |
|-----|--|-------|-----|
| 1   | Specific Gravity Tester LSGT-A10         | Set   | 1   |
| 2   | Negative pressure container (4000ml)     | Piece | 2   |
| 3   | Sealing ring                             | Piece | 2   |
| 4   | Fuse 3A ( $\Phi 5 \times 20$ )           | Piece | 2   |
| 5   | Glass cover-plate                        | Piece | 1   |
| 6   | Quick-plug and connecting pipe (1 meter) | Piece | 1   |
| 7   | Operation manual                         | Piece | 1   |

## Reagent and Auxiliary Equipments

| No. | Name             | Specification | Quantity | Memo     |
|-----|------------------|---------------|----------|----------|
| 1   | Asphalt solution | –             | 1 litres | Gasoline |
| 2   | Distilled water  | Three grade   | Some     | –        |