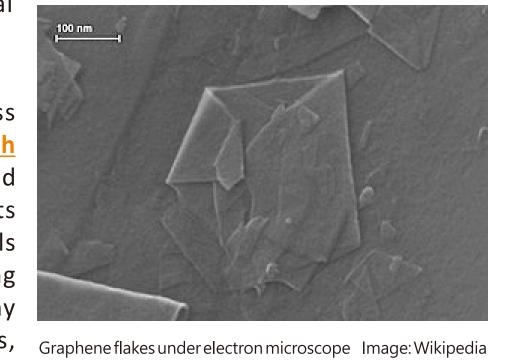


Expert Of All Material Density Tester

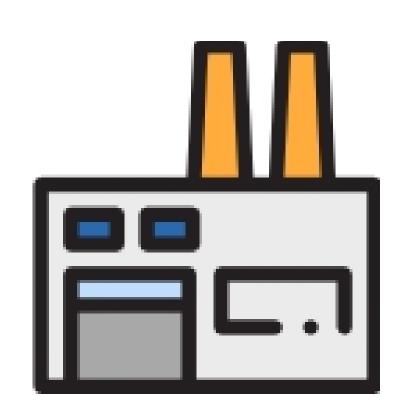
Graphite

Graphite is widely used in touch screens, transistors, batteries, textiles, and even military fields due to its high thermal conductivity, electrical conductivity, elasticity, and density.

Generally speaking, it is manufactured by a complex process called "chemical vapor deposition". The production cost is high and the yield is very low. In theory, it is unlikely to be widely used in products on the market, also nearly 80% of graphite products use "multi-layer graphite" as graphite products, or the materials are unevenly distributed due to poor quality and manufacturing process control, and the extraction process absorbs too many environmental toxic substances. Overheating, low toughness, poor electrical conductivity, and other phenomena occur on the surface, and the quality is uneven.



Applications



soothing, antistatic, and blood circulation enhancement effects on the human body; used in the military field, its light, absorbency, and high hardness characteristics are the best choices for ultra-light aircraft and body armor; used in **3C technology**, the excellent thermal conductivity, and electrical conductivity are widely used in heat sinks and electronic components. At present, not only the manufacturing cost is too high but also

Applied to textiles, its unique current characteristics have

closely track and test the quality of graphite from refining to finished products so that graphite materials can be widely used and maximized, and production costs can also be reduced. The first condition to consolidate quality is to thoroughly explore the density.

the quality is very unstable. We can say, the primary goal is to

Not only **reduces** the time for the proportion of raw materials, but also **stabilize** the accuracy of quality.

TWS-PY Porous Solid Density Tester

The pore structure of graphite greatly affects the physical properties and durability of

TWS-PY checks the overall density of the sample, show the most realistic analysis directly.

the product. We can say, the key point to confirm the quality, is to measure the overall density of the sample from the inside out.



3. P

Bulk & BK+

Weight in air

- With Infrared temperature sensors can automatically detect the water temperature and automatically compensate for water temperature.

Features:

- With upper and lower limit functions and buzzer device, can determine
- The large tank design is to reduce the error that caused by the buoyancy. The size of the water tank is $148 \times 100 \times 85$ mm.

whether the specific gravity of the test object is qualified or not.

Weight in water

after waterproof

Density:

1.5033 g/cm³

Weight in air

after waterproof

MatsuHaku PY series equipped 4 modes:

Testing Mode & Testing Steps

Apparent DS, Open pores, Close p orosity, Total porosity.

2. BK+ - With 5 groups of memory functions. For porous absorbent material, directly shows the Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity.

1. BULK - For porous absorbent material, directly shows the Bulk density, Wet density, Porosity, Absorption,

- For **nonabsorbent material**, shows the <u>Density</u>, <u>Volume</u>, <u>Mix ratio</u> directly. 4. DS

Applying the buoyancy method of Archimedean principle and the international standard of

ASTM C20, C128, C127, C134, C135, C437, C357, GB/T2997, 2998, 2999, 6155,

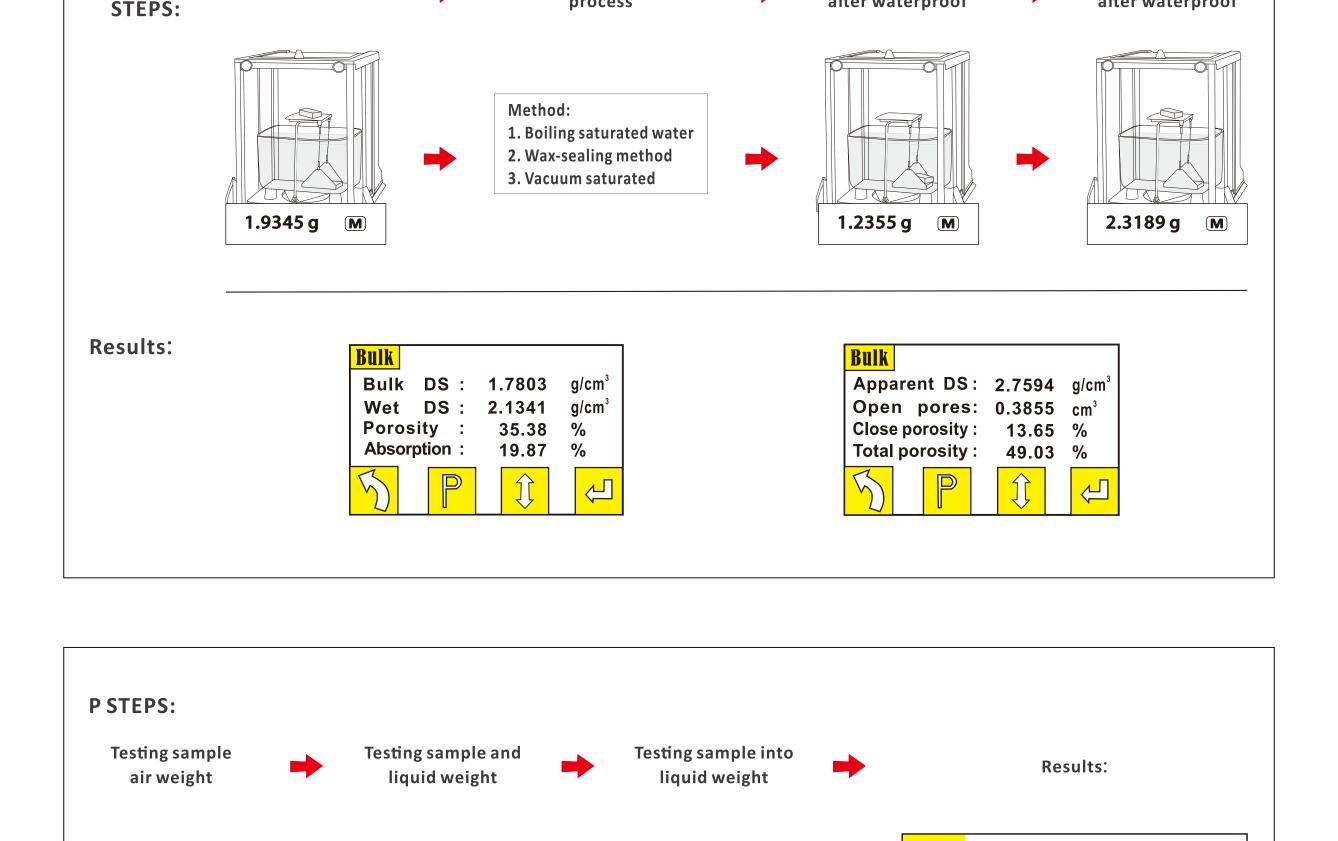
23561, 24203, 24528, AASHTO T84

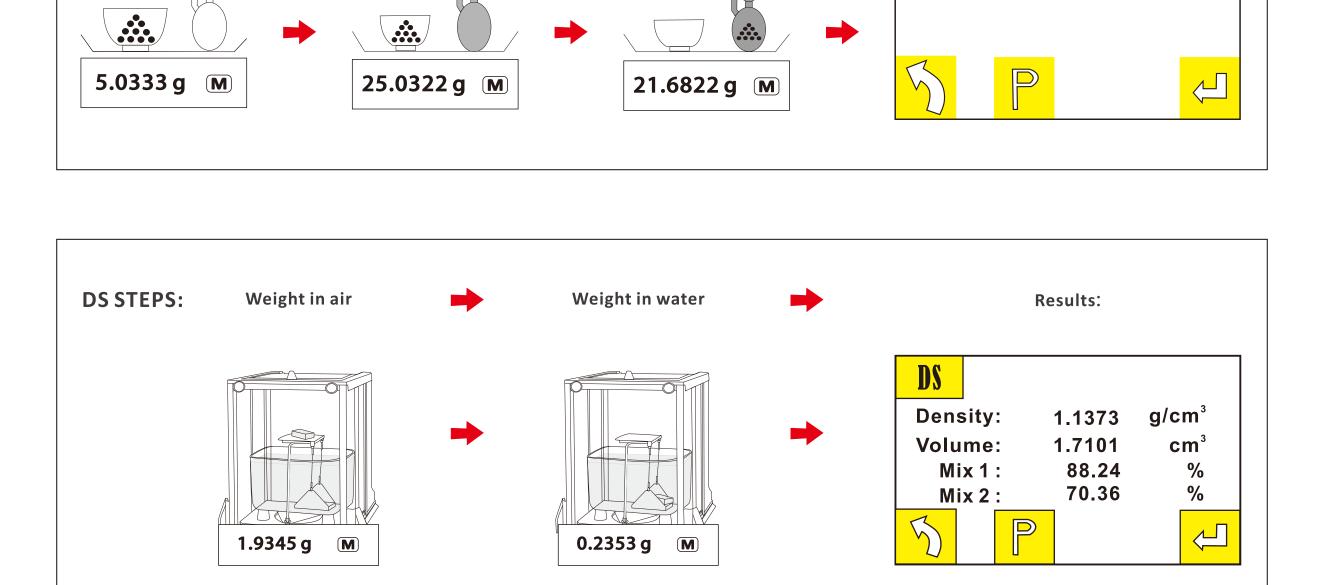
Waterproof

process

- For **powder sample**, shows the <u>True density</u> directly.

International Standard





MatsuHaku Density Tester **Keep You Aware Of**

3. Make sure the quality Stable

1. Reduce the cost and the Defect loss

2. Fit the international Standard



Quality control is more easier than you thought



OROUS SOLID DENSITY TESTER



TWS-214PY







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