

TOUCH TYPE - TWS-153/300/600/1200PM POROUS PRODUCT SOLID DENSITY TESTER



Suitable for:

Powder metallurgy industry, Downstream electrical tools of powder metallurgy, Pneumatic tools, Sewing machine, Sports equipments, Computer fan, General fan, Auto parts, Hand tools, New materials research lab....etc.

Principle:

According to **ASTM B311, B328, MPIF STM 42, STM 57, ISO/DIS 2738:1996, GB/T5163** standard, applying the Archimedes principle buoyancy method. By applying to the boiling water method, the vacuum saturation method, It can direct show of bulk density and porosity data.

Function:

It has four modes:

1. BULK — Adopting water saturation method for porous material.
Show Bulk density, Wet density, Apparent porosity density, Volume.
2. BK+ — Adopting water saturation method for porous absorbent material.
Show Bulk density, Wet density, Apparent porosity density, Volume.
3. OIL — Content sample Show Oil-content directly.
4. DS — Nonabsorbent material. Show Density, Volume, Mix ratio directly.

Style:



TWS-153PM



TWS-300/600PM



TWS-1200PM

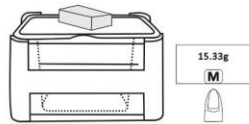
Specification:

Model	TWS-153PM	TWS-300PM	TWS-600PM	TWS-1200PM
Max weight	150g	300g	600g	1200g
Weighing Precision	0.001g	0.01g		
Density Precision	0.0001g/cm ³		0.001g/cm ³	
Setting	With temperature compensation, solution compensation functions and Medium solution of waterproofing process density setting.			
Temperature Function	With Infrared temperature sensors can automatically detect water temperature.			

Testing step:

E.g. (Porous solid)

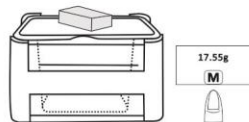
Step 1:
Testing sample
weight in air



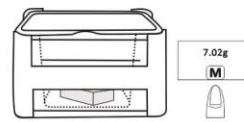
Step 2:
Doing the
waterproofing process

Method:
1. vacuum saturated
2. boiling saturated water
3. immersion saturated

Step 3:
After waterproofing,
testing the weight in air



Step 4:
After waterproofing,
testing the weight in water

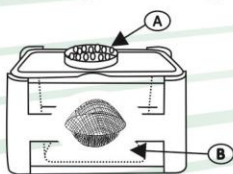


Step 5:
Get the result

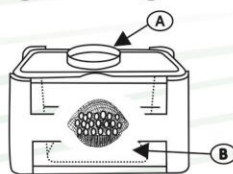
Bulk		
Bulk DS :	6.561	g/cm ³
Porosity :	9.43	%
Wet DS :	6.645	g/cm ³
Volume :	1.087	cm ³

E.g. (Granular - Nonabsorbent solid)

Step 1:
Testing the weight in air



Step 2:
Testing the weight in water



Step 3:
Get the result

DS		
Density:	0.904	g/cm ³
Volume:	4.623	cm ³
Mix 1 :	95.48	%
Mix 2 :	4.52	%

Features:

1. With the latest touch screen, simple operation and immediately display all measurement data.
2. With the RS-232C / USB computer interface, it can be easily connected to a PC and printer.
3. Infrared temperature sensor can automatically detect water temperature and perform water temperature compensation.
4. Built-in oil content measurement mode, can directly read the oil content of the product.
5. With upper and lower limit functions, you can determine whether the specific gravity of the test object is qualified or not. This machine is equipped with a buzzer device.
6. The large tank design is adopted to reduce the error caused by the buoyancy of the hanging rail. The size of the water tank is 148 × 100 × 85mm.