

DATA SHEET

350 Tapped Density Tester

The Agilent 350 Tapped Density Tester provides a standardized and repeatable procedure for measuring the tapped or packed volumes of powders, as well as granulated or flaked materials.



Key Benefits

- ▶ **Conformance.** Select a model that complies with either USP Method I, or USP Method II and ASTM standards.
- ▶ **Easy to use.** Intuitively set test parameters directly from the keypad.
- ▶ **Flexible.** Choose from either a single- or dual-platform tester according to your productivity needs.
- ▶ **Reduced noise.** Available with an optional acoustic cabinet to reduce the noise level, while providing visibility through the front plexiglass door.





Agilent 350 with acoustic cabinet.

The 350 Tapped Density Tester measures the tapped or packed volumes of powders, as well as granulated or flaked materials. The tester is available in two models that are compliant with USP and ASTM standards for tapped density testing.

Simple Operation

The Agilent 350 taps the testing material and packs it evenly throughout the cylinder to create a level surface for direct reading of the measurements from the graduated cylinder. The tester is available in either a single- or dual-platform version. The dual version allows for testing to start and stop at the same time. The USP Method I model operates at 300 drops per minute with rotation, while the ASTM and USP Method II model operates at 250 drops per minute without rotation. The platforms securely hold the measuring cylinders with self-locking clips.

Accuracy

The tester allows for a 14 ± 2.0 mm drop height for the USP Method I version, and a 3 ± 0.2 mm drop height for the USP Method I and II and ASTM version. Depending upon the type of tester compliance, speeds of 300 taps per minute for the 14 mm drop and 250 taps per minute for the 3 mm drop, are maintained.

Accessories and Options

- The Agilent 350 works with a variety of graduated cylinders, from 10 to 500 mL with either a standard or funnel top.
- The optional printer provides hard-copy printouts of test data, including the time, date and calculated results. The printer can be ordered with the instrument or retrofitted at a later date.
- The acoustic cabinet minimizes the typically high noise levels associated with tapped density testing, while providing clear visibility of the test through the front plexiglass door.

Agilent 350 Specifications

Altitude	0 - 2000 m (0 - 6562 ft.)
Temperature	5 to 35 °C
Humidity (non-condensing)	Not more than 80% RH
Voltage requirements	115 V / 60 Hz 230 V / 50 Hz
Current requirements	115 V—3.0 Amp 230 V—2.0 Amp
Fuse requirements	115 V—3.0 Amp, 250 V, 5 x 20 mm 230 V—2.0 Amp, 250 V, 5 x 20 mm
Speed	300 taps per minute for 14 mm drop height 250 taps per minute for 3 mm drop height
Test duration display format	999,999 number of taps or 99:99:99 as hh:mm:ss time format
Counter accuracy	Actual setting \pm 2 taps
Drop height	USP Method I: 14 \pm 2 mm USP Methods I and II, and ASTM: 3 \pm 0.2 mm
Platform rotation	5 - 15 rotations per minute for USP Method I, 14 mm drop
Time/count display	Digital LED
Keypad	Sealed switch-type with numeric menu keys
Operating modes	Counter or timer, user selectable
Dimensions	Height (14 mm drop with platform): 26.7 cm (10.5 in.) Height (14 mm drop with 100 mL cylinder): 53.4 cm (21 in.) Height (14 mm drop with 250 mL cylinder): 56.5 cm (22.25 in.) Width: 30.5 cm (12 in.) Depth: 28.1 cm (11.1 in.)
Equipment weight	12.3 kg (27 lb), dual platform without cylinders

Ordering Information

Product Description	Part Number	
USP Method I, 14 mm drop	Single-platform	Dual-platform
350 Tapped Density Tester, 115 V, 100 mL	50-1000	50-1200
350 Tapped Density Tester, 230 V, 100 mL	50-1100	50-1300
350 Tapped Density Tester, 115 V, 250 mL	50-1810	50-1850
350 Tapped Density Tester, 230 V, 250 mL	50-1800	50-1851
USP I and II, and ASTM Methods, 3 mm drop	Single-platform	Dual-platform
350 Tapped Density Tester, 115 V, 250 mL	50-2000	50-2200
350 Tapped Density Tester, 230 V, 250 mL	50-2100	50-2300
350 Tapped Density Tester, 115 V, 100 mL	50-3000	50-3200
350 Tapped Density Tester, 230 V, 100 mL	50-3100	50-3300
Optional Equipment	Part Number	
Printer, 115/230 V	52-0120	
Printer, retrofit, 115/230 V	52-0153	
Acoustic cabinet	52-2010	

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