

NEW Powder Flow Tester

...affordable testing for powder characterization

NEW Powder Flow Tester brings quick and easy analysis of powder flow behavior in industrial processing equipment. Evaluate powder discharge from storage containers. Use as QC check for incoming materials. Rapidly characterize new formulations for flowability and adjust composition to match flow behavior of established products.

Ideal for manufacturers who process powders daily into finished goods for human and industrial consumers

Minimize or eliminate downtime and expense that occurs when hoppers/silos fail to discharge

Compact design with small footprint — tester fits conveniently on workbench

DxWxH (inches/cm)
15x14x27 (in) / 38x36x69 (cm)



Choice of Test Options:

- Flow Function
- Time Consolidated Test with Flow Function
- Wall Friction
- Bulk Density

Data Output:

- Flow Index for Powder Flowability
- Arching Dimension (Index)
- Rathole Diameter
- Hopper Half Angle
- Gravity Chute Angle (Wall Friction Angle)
- Bulk Density Curve

Real Time Clock Displays:

- Test Step
- Remaining Time to Completion

Shearing Algorithm Captures:

- Peak Stress Value
- Subsequent Stable Stress Value
- Recognizes "Slip Stick" Materials

Choice of Flow Function Tests:

- Demo (5 minutes)
- Standard (15 minutes)
- High Precision (30 minutes)

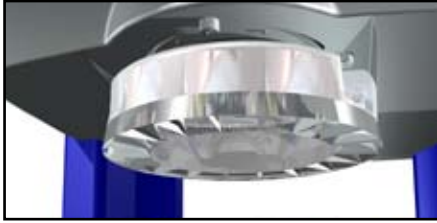
BROOKFIELD VISCOMETERS

The World Leader in Viscosity Measurement & Control For Over 75 Years!

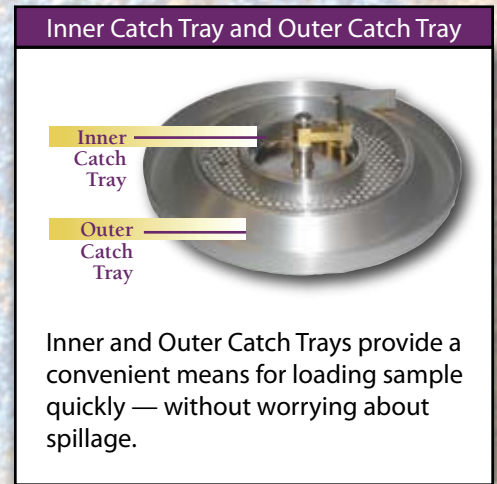
T: 800.628.8139 or 508.946.6200 F: 508.946.6262 www.brookfieldengineering.com

What's Included?

Instrument
Powder Flow Pro Software**
Trough (230 cc)
Vaned Lid (25cc)
Wall Friction Lid: 304 s/s with 2B finish
Outer Catch Tray
Inner Catch Tray with Scraper Tool



Close-up View of Vaned Lid used for Flow Function Test.



Optional Accessories

Reference Powders
Wall Friction Lid Options:
- Mild Steel
- Polyethylene
Balance
Trough, Alternate Size (30 cc), with Lids
Powder Spoon
Test Sample Apron
Cleaning Brush

Applications

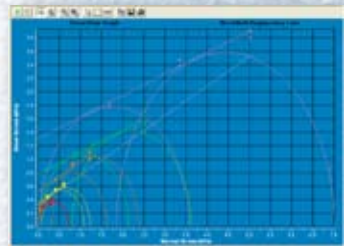
Top Particle Size: 5 mm, 90% < 3 mm
Beverage Mixes
Construction Materials:
- Cement
- Fly ash
- Gypsum
- Hydrated Lime
Cosmetics
Detergents
Foods:
- Cereal
- Chocolate
- Flour
- Seasonings
- Spices & Flavorings
Minerals
Pharmaceuticals
Starch

Powder Flow Pro Software (Included)

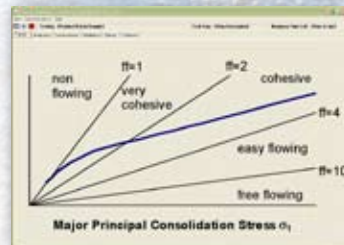


Main screen provides choice of basic tests:

- Flow Function
- Wall Friction
- Time Consolidated Flow Function
- Bulk Density



Stress data output screen captures “normal stress” and “shear stress” values and plots data in graphical format (calculates Mohr Circle Failure Loci).



Flow Function curves are automatically calculated and displayed at the end of each test with overlay capability for up to eight different sample tests.

**Computer Requirements:

Microprocessor: 800MHz Pentium (or equivalent), 512 MB of RAM, 30 MB available disk space, VGA (800 x 600 resolution), MS-Windows 2000, XP, Vista, and one USB or RS-232 port.



Brookfield Engineering Laboratories, Inc.

11 Commerce Boulevard
Middleboro, MA 02346-1031 USA
T: 800.628.8139 or 508.946.6200 F: 508.946.6262
W: www.brookfieldengineering.com