

Hall Flowmeter

Determines flow rate and apparent density of free-flowing metal powders and other powders, and apparent density of non-free-flowing materials.

In use all over the world, the Hall Flowmeter has been covered by ASTM and MPIF Standards since 1945. This unique instrument was invented by E.J. Hall, the founder of the company which has become **ACuPowder**. It determines the flow characteristics and apparent density of free-flowing powdered metals (and other finely divided solids) of various particle size distributions. By interchanging the standard Hall Flowmeter Funnel with the Carney Funnel, the instrument can be adapted to determine the apparent density of non-free-flowing materials (but not their flow rates). The Hall Flowmeter comes with a supply of standardized calibrating powder (emery grit) for periodic checking of accuracy. The funnel will give long years of service with steady usage. When the accuracy of the funnel goes beyond permitted tolerances, replacement funnels can be purchased.

Hall Flowmeter

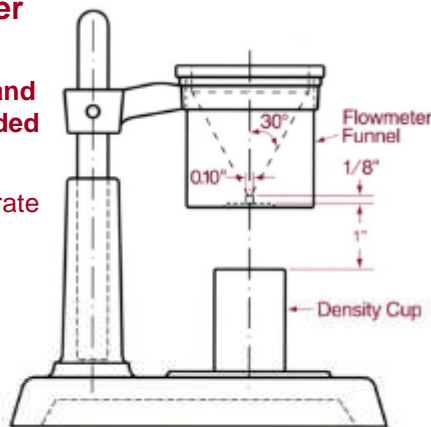
For free-flowing metal powders and other finely divided solids.

Determines flow rate as per:

ASTM B 213

MPIF No. 4

ISO No. 3923/1



Complete Instrument Includes:

- Standard Hall Flowmeter Funnel with 0.1 inch (2.5 mm) diameter calibrated orifice
- Brass Stand with pivoting ring arm holder
- Brass Density Cup, 25 cc capacity
- Standardized emery grit (70gm) used for periodic checking of calibration accuracy

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From industry pioneer to industry leader,

We are innovation in motion

ACuPowder

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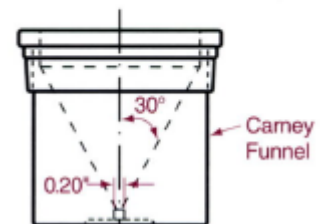
www.acupowder.com

Carney Funnel

For Non Free-Flowing materials (i.e. metal powders and other substances that do not flow through the standard Hall Flowmeter Funnel)

Determines apparent density as per:

ASTM B 417, MPIF No. 28, ISO No. 3923/1



Complete Instrument Includes:

- Carney Funnel with 0.2 inch (5mm) diameter orifice
- Brass Stand with pivoting ring arm holder
- Brass Density Cup, 25cc capacity
- The Carney Funnel can be interchanged with the Hall Funnel when necessary, thus only one complete stand and density cup are usually required
- No emery grit is supplied, not calibrated for flow

ISO 9001

ISO 14001

We have been part of your lives for over 90 years

Flodex™ Powder Flowability Test Instrument

DETERMINES FLOW INDEX OF NON-FREE-FLOWING METAL POWDERS

As defined by Dr. A. Gioia at the Dow Pharmaceutical Research Labs in Milan, intrinsic flowability is the property of a powder to flow evenly under the action of gravity and other forces. His technique uses the FLODEX™ Tester to determine a repeat-able flowability index over an arbitrary scale of 4-34.



The tester has demonstrated its applicability and usefulness to determine a quantitative measure for non-free-flowing metal powders and premixes. It complements the Hall Flowmeter to characterize flow quantitatively and scientifically for the practicing engineer.

- Measures the flowability of all powders that will not flow freely through the Hall Flowmeter funnel.
- Simple test determines a repeatable Index of Flowability.
- Measures flowability for Die Fill purposes.
- Lowers the Coefficient of Variation in product uniformity.
- Establishes a Reliable Flowability Index for Purchasing and Q.A. specifications.
- Test takes into account the following parameters: particle size and shape, true and apparent density, specific surface area, agglomeration, settling and electrostatic charge.

Manufactured by: Hanson Research

ACuPowder International, LLC is the Exclusive Sales Agent to the Metal Powder Industry.

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