

**STANDARD TEST METHOD**  
**APPARENT DENSITY - POWDERS**

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**SCOPE:**

This method covers the test for determination of apparent density of FREE-FLOWING POWDERS.

**APPARATUS:**

1. Standard Hall Flowmeter and density cup having capacity of 25 cc ± .05.
2. Balance - An analytical balance having a capacity of at least 100 g and a sensitivity of 0.1 g.

**PROCEDURE:**


1. If necessary, dry samples for 1 hour @ 102 - 107 C and cool in desiccator.

**NOTE:** DRYING OF COPPER POWDER IS NOT RECOMMENDED.

2. Pour sample into funnel and allow it to run into density cup only until the powder completely fills and overflows the periphery of the cup. When this happens, swing the funnel immediately away from the cup.
3. Using a spatula, carefully level off the powder flush with the top of the cup; care being exercised throughout to avoid jarring the apparatus. After levelling, tap the cup to settle the powder to avoid spilling during weighing.
4. Weigh powder to the nearest 0.1 g.

**CALCULATION:**

Apparent density = weight of product in cup / 25. g/cc.

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