

1. Free flowing powder with average angle of repose. Somewhat granular non uniform particulate material. Many clumps up to 1.5 mm dia. as delivered. Hydroscopic, moisture weight gain the longer the powder was exposed to the air.

- Large variation in particulate size will cause sample weight variations >.5 1%. 2. Recommend high vacuum setting, >20 in hg or more, to pull and retain the large sample. 3. Sample will eject from pipette at 3-4 psi without blowback or flying dust particles. 4. Requires extra volume to accommodate 9.4 gm samples. Prototype pipette was fabricated to give a sample adjustment range of 9.0 11.5 gm

- 5. Sample cycle time: 4 5 seconds including leveling the excess material from the tip.
 Should be approx 3 seconds if leveling step eliminated. Small impact, <1%, to repeatability
 6. 6 bottles were filled to test dispensing process. The powder dispensed into the supplied glass vials easily with no blowback or loose particles.
- Excellent candidate for pipetting