



1 0

0.1346 0.1344

0.1386

0.1394	Av	
0.1385	Mean	
0.0037	Std Dev	
0.1462 0.1373	High Low	Range
6.0876	%	

Notes/observations

Zinc amalgam

1a. Zinc powder is easily aspirated and dispensed. No issues dispensing into the customers simulated vials. Used a well plate with .41 dia. opening for dispense test...

- Set up and calibration are straight forward.
 Requires relatively low air pressure to eject sample from the pipette, however, increasing the air pressure to 8 psi lowers the dispense time.
 Careful leveling of the powder using the leveling plate improves repeatability. See Test #2.

2.0 Standard 0.125 dia capsule tip used for testing.2.a The 10 - 200 micron particle size can be a significant factor dispense sample accuracy if the particles are not distributed uniformly due to entrained air. Sample repeatability can be improved by controlling particle uniformity.

3.0 Aerosol: No aerosol or loose zinc particle artifacts were observed during or after dispense into the wells.

4.0 Under normal laboratory conditions, only periodic cleaning, based on usage, would be required as the powder has a small, <1% of fines under 10 micron. Tip/filter cleaning and changeover is <5

Summary: Easy material to pipette, even at the smaller dispense weights.