

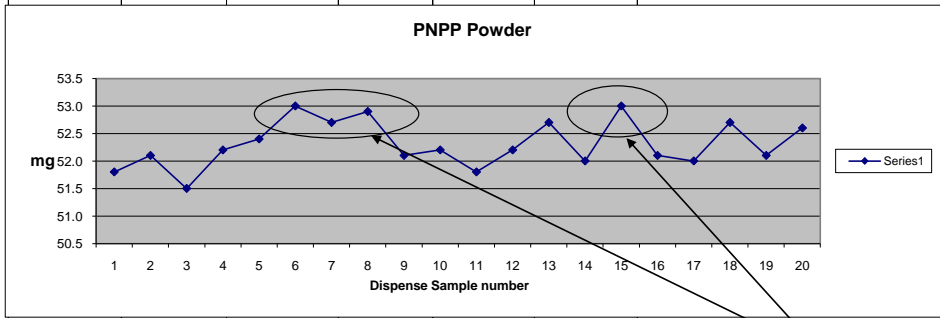
Customer		Contact		Date	26-Jan-10
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Date										
Material	para-nitrphenylphosphate			Material condition		Bulk Density (gm/cc)		Bulk Density (gm/cc)		
Desired Sample size	52 mg +/- 2 mg			Particulate size	Fines	From Table	Measured	Tap Density	From Table	Tap Density
Desired accuracy	Std +/- % 3.8			>10 micron	>10%	NA	0.906	0.91	NA	

Pipette Size	0.125 dia.	Filter Cup:	Filter cup mesh	10 micron
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Micrometer setting	0.40
Sample weight	MG
Set	51.8
	52.1
	51.5
	52.2
	52.4
	53.0
	52.7
	52.9
	52.1
	52.2
	51.8
	52.2
	52.7
	52.0
	53.0
	52.1
	52.0
	52.7
	52.1
	52.6

Control unit settings	
Vacuum (in hg)	Air (psi)
10	8



Cycle time (sec)	Aspirate	Level	Dispense	total
	1	1	1	3

Increased tap density caused by Pipette tip bottoming in supply boat, Recycled weighed material to correct

52.3050	Av	
52.3034	Mean	
0.4249	Std Dev	
53.0	High	Range
51.5	Low	
2.8302	%	

Notes/observations

PNPP Powder

- 1a. Powder is easily aspirated and dispensed. No issues dispensing into the customers vials.
- 1b. Set up and calibration are straight forward.
- 1c. Requires relatively low high, >4 PSI air pressure to eject complete sample from the pipette.
- 1d. No special care was taken to optimize aspirate and dispense after calibration.

- 2.0 Standard 0.125 dia capsule tip used for testing.
- 3.0 **Aerosol:** No aerosol or loose powder artifacts were observed during or after dispense.
- 4.0 Tip/filter cleaning and changeover is <5 minutes.

Summary: Easy material to pipette into the vials with the standard .125 dia. tip.

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