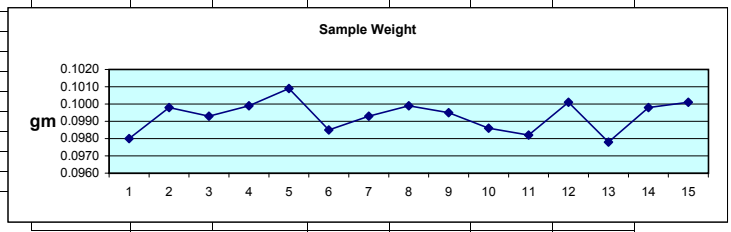
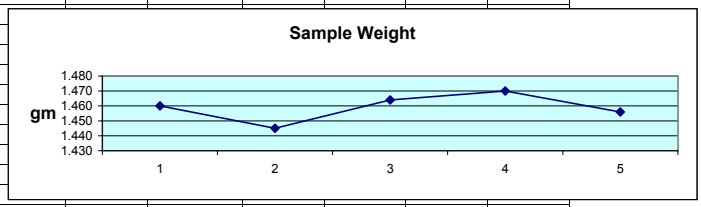
Customer									
Material	**Silica powder**	**.25 micron**		**Est. Bulk Density**		**.2 EST.**		**Date**	5/16/02
Desired Sample size	**.1 to 2 gm**							**rh**	45%
Desired accuracy	**1.0% Repeatability of samples**						**Pipette Size**	**.500 dia. PIPETE**	

Micrometer setting	**Sample weight gm**		**Control unit settings Vacuum (1in hg)**	**Air (psi)**
.500 dia.				
5.75	0.0980		24	5
	0.0998			
	0.0993			
	0.0999			
	0.1009			
	0.0985			
	0.0993			
	0.0999			
	0.0995			
	0.0986			
	0.0982			
	0.1001			
	0.0978			
	0.0998			
	0.1001			
	0.0993	Av		
	0.0993	Mean		Loose, fluffy material pipettes well.
	0.0009	Std Dev		Low bulk and tap density as pipetted



.500 dia.				
15.00	1.4600		24	10
	1.4450			
	1.4640			
	1.4700			
	1.4560			
	1.4590	Av		
	1.4590	Mean		
	0.0094	Std Dev		



Sample size is at max pipette capacity
Max sample size that can be pipetted with std. Pipettes is about 1.5 gm as the bulk density is very low.
A 2 gm sample would require a special length Pipette about 5 in. long X .500 dia. .
Capacity of pump will limit the sample size of this material to about 2.5 gm weight.