
	<b>PREMIER MAGNESIA - GILES CHEMICAL</b>			
	<b>COMPANY POLICY</b>			
	<b>Slurry Determination of % Solids</b>	Page : 1 of 4	Revision : 00 Date : 10/20/2011	
	Author: Lee Cagle	Plant: Waynesville	Area: QC Lab	

**Purpose: Determine percent solids of slurry product**

**Equipment:**

Weighing balance -- B440 Satorius

Gardner cup with lid



**Procedure:**

1. After recording data from slurry sample bottle shake sample until all settling has re-suspended.
2. Place empty Gardner cup with lid on balance and tare to zero.
3. Remove cup from balance, remove lid and fill cup to just below the top edge.
4. Replace lid on cup evenly.
5. Excess slurry should seep out the hole in the lid, if no slurry comes out hole then remove lid and add more slurry.
6. Wipe excess slurry off the cup and place back on the balance.
7. For Gabbs, Superior and Aspers use the **exact sequence** of the following formula for solids results:

$$\text{weight (g)} \div 10 - 7.20 \div 95\% \times 10 = \% \text{ solids}$$



$$\text{Example: } 128.20\text{g} \div 10 - 7.20 \div 95\% \times 10 = 59.16$$

For Martin Marietta (MM) and Tetra material divide the weight by 10 and use the % solids chart.

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## % SOLIDS CHART

% Solids	lbs/gal	% Solids	lbs/gal	% Solids	lbs/gal
40.0	10.82	50.0	11.68	60.0	12.67
40.5	10.85	50.5	11.72	60.7	12.74
41.0	10.90	51.0	11.76	61.1	12.78
41.5	10.95	51.5	11.80	62.0	12.87
42.0	10.99	52.0	11.85	62.3	12.92
42.5	11.05	52.5	11.90	62.5	12.94
43.0	11.09	53.0	11.94	63.0	12.99
43.5	11.11	53.5	11.99	63.4	13.03
44.0	11.15	54.0	12.03	64.0	13.07
44.5	11.20	54.5	12.09	64.2	13.09
45.0	11.25	55.0	12.14	64.3	13.10
45.5	11.29	55.5	12.20	65.0	13.17
46.0	11.33	56.0	12.25	65.4	13.21
46.5	11.37	56.5	12.30	65.6	13.23
47.0	11.41	57.0	12.35	67.1	13.36
47.5	11.45	57.5	12.40	67.6	13.41
48.0	11.50	58.0	12.46	68.2	13.47
48.5	11.54	58.5	12.51	68.5	13.50
49.0	11.59	59.0	12.56	68.8	13.53
49.5	11.63	59.5	12.62	69.1	13.59

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## TRAINING DOCUMENTATION

	EMPLOYEE	TITLE	SIGNATURE	DATE
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