

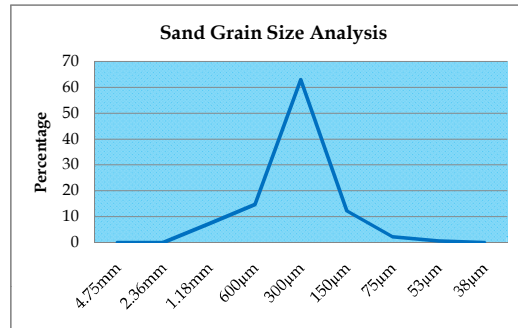
Chicora Foundation Gas Displacement Mortar Analysis Data Sheet

Name: Pointing Mortar, GAR monument **Sample No.:** 2008-1
Date: 3/14/08 **Origin of Sample:** Chalmette, LA; GAR monument; pointing mortar

Visual Description of sample (color, texture, hardness, inclusions, etc.):
 Very hard; brownish in color, rough texture; some larger quartz-like inclusions visible to the eye.

Mortar Analysis

Original weight of powdered sample (in g)	6.79
Weight of filter paper (in g)	0.91
Weight of filter paper + dry fines (in g)	1.01
Weight dry fines (in g)	0.10
Weight of dry sand (in g)	3.59
Gas Displacement (in ml)	25.00
Weight of lime (in g)	0.11
% of sand	52.87
% of fines	1.47
% of lime	1.65
% of acid solubles	44.00



Observations (dissolution of binder, color of liquid, reaction):
 Immediate, aggressive reaction; liquid turns yellow; binder dissolved quickly; reaction short-lived.

Characterization of Sand:

	wt. / % finer than		wt (gm)	%
Microscopic Examination: sub-rounded to rounded, clear and white quartz inclusions.	4.75mm		0.00	0
	2.36mm		0.00	0
	1.18mm		0.26	7.24234
	600μm		0.53	14.76323
	300μm		2.26	62.95265
	150μm		0.44	12.25627
	75μm		0.08	2.228412
	53μm		0.02	0.557103
	38μm		0.00	0
	Total sand weight			3.59

Munsell Color(s) of Sand: primarily 10YR8/1, white; few 10YR7/4 very pale brown inclusions