

LEHIGH

HEIDELBERGCEMENT Group

TECHNICAL SERVICES
SALES & MARKETING
 12667 Alcosta Blvd, Suite 400
 San Ramon, CA 94583
 Telephone (925) 244-6562
 FAX (925) 244-6586

PLANT LOCATION
 15390 Wonderland Blvd.
 Redding, CA 96003
 Telephone (530) 275-1581
 FAX (530) 275-2525

CEMENT TEST REPORT

Cement: Plastic

Report Date: 7/12/2010

Date Shipped: June 2010

STANDARD CHEMICAL REQUIREMENTS	TEST RESULTS	ASTM C 1328 SPECIFICATIONS	
		TYPE S	
Silicon Dioxide (SiO ₂), %	17.4	----	
Aluminum Oxide (Al ₂ O ₃), %	3.6	----	
Ferric Oxide (Fe ₂ O ₃), %	3.5	----	
Calcium Oxide (CaO), %	60.6	----	
Magnesium Oxide (MgO), %	1.7	----	
Sulfur Trioxide (SO ₃), %	2.3	----	
Loss on Ignition (LOI), %	9.0	----	
PHYSICAL REQUIREMENTS			
(ASTM C 204) Blaine Fineness, m ² /gm	436		
(ASTM C 430) -325 Mesh, %	89.7	76 Min	
(ASTM C 266) Time of Setting - Initial (Gillmore)	170	90 Min	
(ASTM C 266) Time of Setting - Final (Gillmore)	270	1440 Max	
(ASTM C 451) False Set, %	81.0	50 Min	
(ASTM C 185) Air Content, %	15	8-20	
(ASTM C 151) Autoclave Expansion, %	0.01	1.0 Max	
(ASTM C 91) Water Retention, % (previous month)	77	70 Min	
(ASTM C 187) Normal Consistency, %	25.2	----	
(ASTM C 109) Compressive Strength, psi (MPa)			
7 Day	3193 (22)	1300 (9.0) Min	
28 Day (Previous month)	3923 (27)	2100 (14.5) Min	

This cement meets the requirements of specification:

ASTM C1328-97 Type S



Albert J. Cornibe
 Quality Manager