

Work done to date on Kaiser Castables from Mexico, Missouri

	Detrick Lab Data by test	Kaiser Lab Published Data
MEXICAST F 310		
Maximum Service Temperature	_____	2400F
Fusion Point	_____	2600F
Shipping Weight, Dry	103#/c.ft.	
Water Ratio	.192/l	.128 -.22/l
Material Required per c.ft. in place	114#	111-113 #
DENSITY		
Oven Dried	122#/c.ft.	113-117#/c.ft.
Fired at 2400F	116#/c.ft.	112-115#/c.ft.*
COMPRESSIVE STRENGTH		
Oven Dried	4275psi	2000-2950psi
Fired at 2400F	5850psi	4200-4700psi*
LINEAR CHANGE		
Oven Dried	-0.4%	-0.2 to -0.5%
Fired at 2400F	-0.25%	-1.5 to 2.0%*
* These samples fired at 2250 as published by Kaiser.		

HI STRENGTH F334S

Maximum Service Temperature	_____	2500F
Fusion Point	_____	2650F
Shipping Weight, Dry.	104#/c.ft.	
Water Ratio	.2/l to .23/lp	.142-.155/l
Material Required /c.ft. in place	110#	120-124#
DENSITY		
Oven Dried	127#/c.ft.	126#/c.ft.
Fired at 2400F	118#/c.ft.	118#/c.ft.
COMPRESSIVE STRENGTH		
Oven Dried	4575psi	2512psi
fired at 2400F	5500psi 5700psi	4177psi
LINEAR CHANGE		
Oven Dried	-1.0%	60.2%
Fired at 2400F	+0.25%	+0.7%

**PLAINTIFF'S
EXHIBIT**

MHD- 34

	Detrick	Faiser
SUPER FURNASCRETE F322		
Maximum Service Temperature	_____	2800F
Fusion Point	_____	3000F
Shipping weight, dry	115#/c.ft.	
Water, Cement Ratio	.174/1 t .205/1 p	
Material Required/c.ft in place	115#	.142-.155/1 121-126#
DENSITY		
Oven Dried	131#/c.ft.	125-130#/c.ft.
Fired at 2400F	127#/c.ft.	119-125#/c.ft.
COMPRESSIVE STRENGTH		
Oven Dried	2775psi	950-1120psi
Fired at 2400F	4860psi	2750-3400psi
LINEAR CHANGE		
Oven Dried	0.0%	-0.1 to -0.3%
Fired at 2400F	+0.65%	+0.8 to +0.6%
PUROTAB F335		
Maximum Service Temperature	_____	3400F
Fusion Point	_____	_____
Shipping Weight, Dry	116#/c.ft.	
Water Cement Ratio	.135/1 t .143/1 p	
Material Required/ c.ft. in place	158#	.101/1 160-165#
DENSITY		
Oven Dried	176#/c.ft.	164-168#/c.ft.
Fired at 2400F	162#/c.ft.	156-159#/c.ft.
COMPRESSIVE STRENGTH		
Oven Dried	5550psi	5330-7480psi
Fired at 2400F	6900psi	3900-4330psi
LINEAR CHANGE		
Oven Dried	0.0%	-0.1 to -0.2%
Fired at 2400F	-0.05%	-0.4 to -0.6%

M.H. Detrick Co.
R&D LABORATORY

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