



## ABLE CAST

ABLE CAST IS A FIRECLAY CASTABLE WITH EXCELLENT STRENGTH AND RESISTANCE TO ABRASION IN THE LOW TO MODERATE TEMPERATURE RANGE, 1000<sup>0</sup>F - 1300<sup>0</sup>F. VERY EASY TO MIX AND CAST.

MAXIMUM RECOMMENDED USE LIMIT .....2200<sup>0</sup>F  
MELTING POINT .....2600<sup>0</sup>F

<u>TEST TEMPERATURE</u>	<u>MODULUS OF RUPTURE, PSI</u>	<u>COLD COMPRESSIVE STRENGTH, PSI</u>	<u>LINEAR CHANGE %</u>
220 <sup>0</sup> F	850-1100	3500-4500	0.0
1000 <sup>0</sup> F	600- 800	2500-3800	-0.2
1500 <sup>0</sup> F	200- 300	1000-1300	-0.5
1700 <sup>0</sup> F	190- 275	700-1000	-0.7
2000 <sup>0</sup> F	300- 400	800-1000	-0.8
2200 <sup>0</sup> F	400- 600	1100-1700	-1.4

### CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub>	.....30.80
SiO <sub>2</sub>	.....47.40
Fe <sub>2</sub> O <sub>3</sub>	..... 1.60
TiO <sub>2</sub>	..... 2.00
CaO	.....14.70
MgO	..... 1.30
ALKALIES	..... 1.30
IGN. LOSS	..... 0.30

### THERMAL CONDUCTIVITY BTU/SQ.FT./HR./IN./<sup>0</sup>F

<u>MEAN TEMP.</u>	<u>"K"</u>
500 <sup>0</sup> F	6.85
1000 <sup>0</sup> F	6.98
1500 <sup>0</sup> F	7.12
2000 <sup>0</sup> F	7.21

WATER REQUIRED FOR MIXING (BY WEIGHT) .... 11 - 13%  
QUARTS OF WATER PER 75 LB. BAG ..... 4 - 5  
MATERIAL REQUIRED PER CUBIC FOOT ..... 118 - 123 LBS.  
PACKAGED IN 75 LB. BAGS, 48 BAGS PER PALLET (3600 LBS.)