



ABLE LC-80

ABLE LC-80 is a 80% alumina low cement, low moisture castable which has extremely high hot strength, high density, low porosity and superior corrosion resistance. It can be used as an original lining, as pre-cast shapes in iron and steel applications, Petro-Chem plants, non-ferrous furnaces and ladles, and cement kilns.

Maximum Recommended Use Limit	3300°F
Melting Point	3400°F

Reheat Properties:

<u>Hours</u>	<u>TEST TEMPERATURE</u>	<u>MODULUS OF RUPTURE, PSI</u>	<u>COLD CRUSH PSI</u>	<u>LINEAR CHANGE %</u>
24	220°F	1900	9,900	-0.0
5	1500°F	2500	12,800	-0.1
5	2000°F	3100	13,100	-0.2
5	2500°F	3400	13,500	-0.2
5	3000°F	3100	13,000	-1.0

Hot Modulus of Rupture, psi	@ 1500°F	3100
	@ 2500°F	1600

CHEMICAL ANALYSIS

Al ₂ O ₃	80.9
SiO ₂	12.8
Fe ₂ O ₃	1.1
TiO ₂	2.7
CaO	2.0
Mgo	0.1
Alkalies	0.4

THERMAL CONDUCTIVITY BTU/SQ.FT./HR./IN.°F

Mean Temp.	"K"
500°F	14.0
1000°F	13.3
1500°F	11.3
2000°F	10.8
2500°F	10.5

Water required for mixing (by weight)	5.5%
Material required per cubic foot	175 Lbs.

Packaged in 75 lb. cartons, 48 cartons per pallet - (3600 lbs./pallet)