



ABLE PLASTIC 85P

ABLE Plastic 85P is an 85% Alumina-Class, Phosphate-Bonded, High Alumina Plastic Refractory. It exhibits high strength and density throughout the entire temperature range. It is used where excellent resistance to temperature, slagging, spalling, and abrasion is required in cyclones, hearths of reheating furnaces, soaking pit lower sidewalls and bottoms, forge furnace hearths, non-ferrous furnaces, ladles, electric furnace and cupola spouts, and other high temperature applications.

Maximum Recommended Use Limit 3200°F
 Melting Point 3390°F

<u>TEST</u> <u>TEMPERATURE</u>	<u>MODULUS OF</u> <u>RUPTURE,PSI</u>	<u>LINEAR</u> <u>CHANGE %</u>
200°F	600-800	-0.2 to -0.4
1500°F	600-800	-0.1 to -0.2
2550°F	1000-1300	+0.1 to +0.3
3000°F	1800-2200	+0.3 to +0.5

<u>CHEMICAL ANALYSIS</u>		<u>THERMAL CONDUCTIVITY</u> <u>BTU/SQ.FT./HR./IN./°F</u>	
Alumina	..... 85.80	Mean Temp. "K"	
Silica	..... 8.10	1000°F	16.81
Ferric Oxide	..... 0.50	1500°F	14.77
Titanium Oxide	..... 1.70	2000°F	14.18
Calcium Oxide	..... 0.10	2300°F	14.00
Magnesium Oxide	..... 0.20		
Phosphorus Petoxide	.... 3.50		
Alkalies	.... 0.20		

Material Required per Cubic Foot180 - 185 Lbs.

Packaged in 100 Lb. Poly-Lined Cartons, 36 Cartons per Pallet
 (3600 Lbs.)