



# CHEMICALLY BONDED INSULATION CASTABLES

PRODUCT DATA

## PHOSLITE 35T

*PHOSLITE 35T IS A CHEMICALLY BONDED LIGHTWEIGHT CASTABLE WITH AN OPERATING TEMPERATURE OF UP TO 1300°C. IT HAS AN EXTREMELY LOW IRON CONTENT WITH EXCELLENT THERMAL SHOCK AND INSULATING PROPERTIES. PHOSLITE 35T IS SINGLE COMPONENT PRODUCT AND FULLY HARDENS AT AMBIENT TEMPERATURES WITHIN 24 HOURS OF MIXING WITH WATER. HEAT CAN IMMEDIATELY BE APPLIED AFTER INSTALLATION WITHOUT RISK OF THERMAL SPALLING OR EXPLOSIONS*

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1300°C)

TYPICAL WATER ADDITION TO CAST 50 - 60 %

### BULK DENSITY

@ 110°C	33 - 40	LBS/FT <sup>3</sup>	530 - 640	KG/M <sup>3</sup>
@ 815°C	31 - 38	LBS/FT <sup>3</sup>	495 - 610	KG/M <sup>3</sup>

### COLD CRUSHING STRENGTH

@ 540°C	250 - 500	P.S.I.	17 - 34	KG/CM <sup>2</sup>
@ 815°C	250 - 500	P.S.I.	17 - 34	KG/CM <sup>2</sup>
@ 925°C	250 - 500	P.S.I.	17 - 34	KG/CM <sup>2</sup>

### PERMANENT LINEAR CHANGE

@ 540°C	- 0.30 TO - 0.50 %
@ 815°C	- 0.30 TO - 0.50 %

### CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT<sup>2</sup>/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	1.05	0.15
@ 540°C (1000°F)	1.15	0.16
@ 815°C (1500°F)	1.25	0.18

### TYPICAL CHEMICAL ANALYSIS (%)

AL <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO/MgO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	ALK
27.6	40.0	0.30	6.41	0.56	16.4	2.8

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