



CHEMICALLY BONDED INSULATION CASTABLES

PRODUCT DATA

PHOSLITE 20R

PHOSLITE 20R IS A CHEMICALLY BONDED SUPER-LIGHTWEIGHT CASTABLE WITH AN OPERATING TEMPERATURE OF UP TO 1100°C. IT HAS AN EXTREMELY LOW IRON CONTENT WITH EXCELLENT THERMAL SHOCK AND INSULATING PROPERTIES. PHOSLITE 20R IS SINGLE COMPONENT PRODUCT AND FULLY HARDENS AT AMBIENT TEMPERATURES WITHIN 12 HOURS OF MIXING WITH WATER. ONCE HARDENED, HEAT CAN IMMEDIATELY BE APPLIED

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1100°C)

TYPICAL WATER ADDITION TO CAST 90 - 105 %

BULK DENSITY

@ 110°C	24 - 29	LBS/FT ³	385 - 465	KG/M ³
@ 815°C	22 - 28	LBS/FT ³	352 - 449	KG/M ³

COLD CRUSHING STRENGTH

@ 540°C	60 - 115	P.S.I.	5 - 9	KG/CM ²
@ 815°C	50 - 100	P.S.I.	4 - 7	KG/CM ²
@ 925°C	50 - 100	P.S.I.	4 - 7	KG/CM ²

PERMANENT LINEAR CHANGE

@ 540°C	- 0.30 TO - 0.60 %
@ 815°C	- 0.30 TO - 0.60 %

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	0.76	0.11
@ 540°C (1000°F)	0.83	0.12
@ 815°C (1500°F)	1.10	0.16

TYPICAL CHEMICAL ANALYSIS (%)

AL₂O₃	SiO₂	Fe₂O₃	CaO/MgO	TiO₂	P₂O₅	ALK
22.5	37.7	0.43	13.41	0.56	17.6	1.8

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