

PHOSLITE 35

PHOSLITE 35 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 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.) (1300°C)

TYPICAL WATER ADDITION TO CAST 50 - 60 %

BULK DENSITY

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

COLD CRUSHING STRENGTH

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

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/FT²/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 ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO/MgO	TiO ₂	P ₂ O ₅	ALK
27.6	40.0	0.30	6.41	0.56	16.4	2.8

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