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## Firebrick Specifications

	High Duty Firebrick	SuperDuty Firebrick	High Fired SuperDuty Firebrick ( <i>special order</i> )	70% Alumina
PCE Value	32-32½	33	32½ - 33	38
Temperature Limit	2900°F	3000°F	3000°F	3200°F
Apparent Porosity	19%	14%	14%	16.5-19.5%
Bulk Density	133.2 lb/ft <sup>3</sup>	142 lb/ft <sup>3</sup>	145 lb/ft <sup>3</sup>	162-167lb/ft <sup>3</sup>
MOR	924 psi	1499 psi	2500 psi	1100-1700 psi
CCR	-----	6600	6000	4000-7000 psi
Linear Reheat Change	-1.2% at 2550°F	-1 to+0.5% at 2910°F	+0.3% at 2910°F	2-4%at 2910°F
Panel Spall Loss	3.3% at 2910°F	-----	-----	-----
Chemical Properties				
Al <sub>2</sub> O <sub>3</sub> %	37.08	49.4	46.9	69.4
SiO %	58.3	49.4	47.8	24.4
Fe <sub>2</sub> O <sub>3</sub> %	1.45	1.6	1.4	1.5
TiO <sub>2</sub> %	1.72	2.2	2.1	3.1
CaO %	.18	0.2	0.2	0.10
MgO %	.34	0.4	0.3	0.2
Alkalies %	1.07	0.7	0.7	0.6
P <sub>2</sub> O <sub>5</sub> %	-----	1.4	0.6	0.7

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