



Henson Ceramics Limited

Castle Works, Stafford ST16 2ET

HCL20B

HCL1500 SERIES HIGH ALUMINA REFRACTORIES

PROPERTY	UNIT	TEMPERATURE	HCL1500	HCL1530	HCL1540	HCL1550
Principal raw Material	Al ₂ O ₃	-	Fused	Bubble	Tabular	Tabular
Al ₂ O ₃	wt %	-	99.2	95	96	54
CaO	wt %	-	0.05	2.1	3.5	n/a
SiO ₂	wt %	-	<0.01	0.1	0.1	38
MgO	wt %	-	0.7	<0.01	<0.01	n/a
Density	g cm ⁻³	20 °C	2.65	1.20	2.70	2.14
Maximum Service Temperature	°C	-	1600	1800	1800	1550
Permanent Linear Change	%	@MST	<1%	<1%	<1%	<1%
Coefficient of Linear Expansion	10 ⁻⁶ °C ⁻¹	20 - 600 °C	8.1	7.8	7.9	6.2
Thermal Conductivity	Wm ⁻¹ K ⁻¹	20 - 600 °C	1.6	0.9	1.7	1.3