



Henson Ceramics Limited

Castle Works, Stafford ST16 2ET

HCL06A

HCL1200 SERIES YTTRIA STABILISED ZIRCONIA

PROPERTY	UNIT	TEMPERATURE	HCL1203	HCL1208
Composition	mol %		3	3
Colour			White	White
Cracks			No cracks	No Cracks
Open Porosity	%		Nil	Nil
Density	g cm ⁻³		6.03	5.9
Cross Breaking Strength	MPa	20°C	1000	180
Youngs Modulus	GPa	20°C	200	170
Hardness	Vickers		1300	800
Coefficient of Linear Expansion	10 ⁻⁷ °C ⁻¹	20° - 600°C	105	110
Thermal Conductivity	Wm ⁻¹ K ⁻¹		2	2.5
Volume Resistivity	Ohm.cm	20°C	10 ⁹	10 ⁸

Please note that these figures are based on test sample results and should be taken as a guide only