Item	Components		Zirconia	Zirconia	Alumina+Zirconia	Silicon Carbide	Silicon Nitride
	% Composition		ZRO2/Y2O3	ZRO2/Y2O3/AL2O3	ZTA	SiC	Si3N4
			95/5	95/5/0.25	80/20		
Physical Characteristics	Bulk density	g/cm^3	6.05	6.05	4.2	3.2	3.2
	Water absorption	%	0	0	0	0	0
Mechanical Characteristics	Flexural strenght	Mpa	1000	1200	480	>450	600< X <1000
	Hardness HRA	HRA	89	89	91	85< X <90	75< X <80
	Young's module of elasticity	Gpa	200	220	200	430	320
	Poisson's ratio	-	0.31	0.30	0.23	0.20	0.25
Thermal Characteristics	Coefficient of linear thermal expansion	20°C/500°C $*10^{-6}$ mm/°C	10	9	8	4,5	3,1< X <3,3
	Thermal conductivity	W/(m.K)	2.5	3.0	2.0	60	15< X <20
	Specific Heat	$*10^{-3}$J/(Kg*K)	0,5	0,6	0,5	0,67	0,66
Electrical Characteristics	Dielectric constant (1 MHz)	-	N.A.	N.A.	N.A.	N.A.	N.A.
	Dielectric loss angle	$*10^{-4}$	N.A.	N.A.	N.A.	N.A.	N.A.
	Dielectric strenght	$*10^{6}$V/m	N.A.	N.A.	N.A.	N.A.	N.A.

Above characteristics are only indicative values.