



**GREEN STRENGTH AND DENSITY OF
 ISOSTATICALLY PRESSED SILICON CARBIDE
 CERAMIC MIX INCORPORATING AQUAZOL
 CERAMIC BINDER AT VARIOUS LEVELS**

% Binder Aquazol	Green Density g/cc	% Theo. Density	Flex. Str. psi	Flex. Mod. psi x 10 ⁵	Comp. Str. psi	Sintered Density g/cc	% Theo. Density
0	1.99	63.5	150	1.62	146	2.98	94.1
1	1.93	62.0	217	1.91	244	2.89	91.4
2	1.93	62.4	252	2.01	313	2.84	89.9
3	1.96	63.6	270	1.95	324	2.82	89.3
4	1.96	64.0	410	2.38	507	2.84	89.9
5	1.96	64.5	389	2.40	460	2.80	88.7

MIX RECIPE

Ingredient Weight, grams

SiC 100
 B₄C 6
 Phenolic Resin 3
 Surfactant 0.1
 Aquazol 0 - 5

