

DATASHEET: SILICON CARBIDE

PROPERTIES	Units	EC70P	EC90P	EC100P
		SiC	SiC	Recrystallised SiC
Physical Properties				
% SiC	% wt	70	90	>99.5
% Mullite	% wt	30	10	0
Density	g/cm ³	2.1	2.2	2.7
Open Porosity	%	25	25	15
Thermal Properties				
Max Operating Temp	°C	1400	1450	1610
Max Operating Temp	°F	2550	2645	2930
Thermal Conductivity (20 - 100oC)	W/m ^o K	7	25	-
Coefficient Thermal Expansion	x10 ⁻⁶ K ⁻¹	5	5	5
Mechanical Properties				
Flexural Strength	psi	-	-	-
Hardness- Mohs	Mohs	-	-	-
Tensile Strength	psi	-	-	-
Electrical Properties				
Volume Resistivity at 20°C	ohm - cm	-	-	-
Volume Resistivity at 600°C	ohm - cm	-	-	-
Dielectric Constant	25°C & 1 mhz	-	-	-

** - Full Chemical Analysis Available On Request

Additional material properties are available - please ask at enquiries@earthwaterfire.com

These values were established on test pieces and identify the characteristic data of our products. Transferring of these values into practice depends on individual geometry and application of each part.

For Further Information contact us at: enquiries@earthwaterfire.com