

Grade: GCGW-5110

Manufacturer:	Graphtek LLC
Description:	Gray wonderstone unfired (grey) alumina silicate machinable ceramic. Easily machined to close tolerances with high speed or carbide (recommended) tools. When fired, requires dimond tooling for further machining.

PROPERTY	US VALUE		METRIC VALUE	
Composition	Alumina Silicate			
Water Absorption	2.5	%		
Softening Temperature	2012	°F	1100	°C
CTE, @25-100 C	2.9 x 10 ⁻⁶			
CTE, @100-600 C	3.6 x 10 ⁻⁶			
Density	0.085	lb/in ³	2.35	gr/cm ³
Color, unfired	Gray			
Color, fired in air	Pink			
Maximum Temperature	2012	°F	1100	°C
Flexural Strength	10000	psi	68.9	MPa
Compressive Strength	25000	psi	172.4	MPa
Tensile Strength	2500	psi	17.2	MPa
Hardness (after firing)	6	Moh's scale		
Specific Gravity	2.76 - 2.85	gms/cc		
Thermal Conductivity	0.73	BTU/(h.ft ² °F/ft)	1.26	W/(m ² . K/m)