

Properties	Bazelite 2000	Blazelite 2100	Blazelite 2300	Blazelite 2300 LI	Blazelite 2300 VLI	Blazelite 2500	Blazelite 2600 LI
Maximum Service Temperature, °F (°C)	2100 (1149)	2100 (1149)	2300 (1260)	2300 (1260)	2300 (1260)	2500 (1371)	2600 (1427)
Yield, lbs dry mix required per cu. ft. of construction without rebound (kg/m3)	62 (993)	60 (961)	64 (1025)	54 (865)	59 (945)	79 (1265)	74 (1185)
Density, lb/ft3 (kg/m3)							
Fired 5 hrs. at 1500°F (816°C)	64 (1025)	65 (1041)	70 (1121)	61 (977)	66 (1057)	78 (1249)	72 (1150)
Mixing Water Required, (Approx)	26	25	30	32	31	20	24
U.S. qt/100 lb dry material (Liter/100 kg dry material)	54	52	63	67	65	41	49
Modulus of Rupture, psi (kg/cm²) (MPa) ASTM C 258							
Dried at 220°F (104°C)	150 (1.03)	160 (1.10)	130 (0.90)	130 (0.90)	140 (0.97)	330 (2.78)	240 (1.65)
Fired at 1000°F (540°C)	70 (0.46)	120 (0.83)	70 (0.48)	150 (1.03)	80 (0.55)	160 (1.10)	160 (1.10)
1500°F (815°C)	90 (0.62)	150 (1.03)	80 (0.55)	60 (0.40)	90 (0.62)	140 (0.93)	110 (0.76)
2000°F (1095°C)	90 (0.62)	130 (0.90)	90 (0.62)	50 (0.34)	90 (0.62)	120 (0.83)	120 (0.83)
2300°F (1260°C)			200 (1.38)	90 (0.62)	140 (0.97)	200 (1.38)	100 (0.69)
2500°F (1371°C)						290 (2.00)	300 (2.07)
Cold Crushing Strength, psi (kg/cm²)							
Dried at 220°F (104°C)	600 (4.13)	400 (2.75)	400 (2.75)	700 (4.82)	600 (4.13)	1500 (10.33)	700 (4.82)
Fired at 1000°F (540°C)	430 (2.96)	390 (2.69)	320 (2.21)	410 (2.82)	310 (2.14)	1200 (8.27)	1000 (6.89)
1500°F (815°C)	420 (2.90)	570 (3.93)	500 (3.45)	410 (2.82)	370 (2.55)	1200 (8.27)	700 (4.82)
2000°F (1095°C)	340 (2.34)	420 (2.84)	270 (1.86)	320 (2.20)	310 (2.19)	800 (5.51)	700 (4.82)
2300°F (1260°C)			550 (3.79)	430 (2.96)	550 (3.86)	1100 (7.58)	700 (4.82)
2500°F (1371°C)						1400 (9.65)	700 (4.82)
Permanent Linear Change, % ASTM C 269							
Fired at 1000°F (540°C)	-0.1	- 0.2	- 0.2	-0.1	-0.1	-0.2	-0.2
1500°F (815°C)	-0.2	-0.2	-0.1	-0.2	- 0.2	-0.2	-0.2
2000°F (1095°C)	-0.3	-0.2	-0.2	- 0.4	-0.2	-0.2	-0.2
2300°F (1260°C)			- 0.9	-1	-0.7	-0.5	-0.5
2500°F (1371°C)						-0.7	- 2.1
Chemical Analysis, % fired basis per ASTM C 573							
Alumina - Al ₂ O ₃	34.0	35.3	43.9	41.3	47.8	43.6	51
Silica - SiO ₂	40.1	40.5	43.8	41	35	38.2	40.1
Ferric Oxide - Fe ₂ O ₃	6.5	4	3.2	0.9	0.5	2.7	0.8
Titania - TiO ₂	1.9	1.7	1.8	1.6	1	1	1.2
Calcium Oxide - CaO	15.8	16.9	6.7	14.1	15.1	13.6	4.7
Magnesium Oxide - MgO	0.3	0.5	0.2	0.2	-	0.4	0.1
Alkalies, as Na ₂ O & K ₂ O	0.8	1.1	0.9	1.2	0.9	0.5	0.1
Others							2
ASTM Class C 64 & C 401	P	P	P & Q	O, P & Q	P & Q	Q	Q