

Properties	Blazecrete 2300 ARG	Blazecrete 3000 G	Blazecrete 2500 HS	Blazecrete 2600	Blazecrete 2800	Blazecrete 3000	Blazecrete 3200
Maximum Service Temperature, °F (°C)	2300 (1260)	3000 (1649)	2500 (1371)	2600 (1427)	2800 (1537)	3000 (1649)	3200 (1760)
Density, lb/ft3 (kg/m3)							
Fired 5 hrs. at 1500°F (816°C)	120 (1922)	130 (2082)	124 (1986)	130 (2082)	128 (2050)	135 (2162)	149 (2387)
Mixing Water Required, (Approx)	7	7	6	7	6	5	4
U.S. qt/100 lb dry material (Liter/100 kg dry material)	(15)	-15	-12	-15	-12	-10 (8)	
Modulus of Rupture, psi (MPa)							
ASTM C 268							
Dried at 220°F (104°C)	1100 (7.6)	200 (1.4)	1100 (7.6)	400 (2.8)	500 (3.4)	700 (4.8)	1000 (6.9)
Fired at 1000°F (540°C)	300 (2.1)	100 (0.7)	300 (2.1)	130 (0.9)	200 (1.4)	400 (2.8)	700 (4.8)
1500°F (815°C)	300 (2.1)	100 (0.7)	300 (2.1)	100 (0.7)	150 (1.0)	300 (2.1)	700 (4.8)
2000°F (1095°C)	200 (1.4)	130 (0.9)	200 (1.4)	100 (0.7)	200 (1.4)	300 (2.1)	700 (4.8)
2300°F (1260°C)	300 (2.1)	200 (1.4)	300 (2.1)	200 (1.4)	300 (2.1)	500 (3.4)	1200 (8.3)
2500°F (1371°C)		250 (1.7)	700 (4.8)	600 (4.1)	500 (3.4)	800 (5.5)	1400 (9.6)
At Use Limit		1000 (6.9)		700 (4.8)	900 (6.2)	1000 (6.9)	1200 (8.3)
Cold Crushing Strength, psi (MPa)							
Dried at 220°F (104°C)	7100 (48.9)	1200 (8.3)	8000 (55.2)	2600 (17.9)	3000 (20.7)	4200 (28.9)	8400 (57.9)
Fired at 1000°F (540°C)	3200 (22.4)	1100 (7.6)	6400 (44.1)	2100 (14.5)	2200 (15.2)	4300 (29.6)	5300 (36.5)
1500°F (815°C)	3500 (24.1)	900 (6.2)	5600 (38.6)	1800 (12.4)	2500 (17.2)	3700 (25.5)	6100 (42.0)
2000°F (1095°C)	2400 (16.5)	900 (6.2)	2700 (18.6)	1000 (6.9)	1300 (9.0)	2700 (18.6)	4300 (29.6)
2300°F (1260°C)	2600 (17.9)	1200 (8.3)	3400 (23.4)	2100 (14.5)	2200 (15.2)	3100 (21.4)	3900 (26.9)
2500°F (1371°C)		1500 (10.3)	5200 (35.8)	4000 (27.6)	5100 (35.1)	7100 (49.0)	5500 (37.9)
At Use Limit		5000 (34.5)			7000 (48.8)	9200 (63.4)	7800 (53.8)
Permanent Linear Change, %							
ASTM C 269							
Fired at 200°F (104°C)	-0.1	-0.1	0	0	0	0	0
1000°F (540°C)	-0.2	-0.1	-0.1	0	-0.1	-0.1	-0.1
1500°F (815°C)	-0.3	-0.1	-0.1	0	-0.1	-0.1	-0.1
2000°F (1095°C)	-0.3	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1
2300°F (1260°C)	-1.1	-0.5	-0.8	-0.2	0	-0.4	-0.4
2500°F (1371°C)		-0.9	0.2	1.8 + 1.0		-0.7	-0.4
At Use Limit		1			2.9	0.1	0.9
Chemical Analysis, %							
fired basis per ASTM C 573							
Alumina - Al2O3	33.4	53.9	42.9	45.5	47.6	53	65.3
Silica - SiO2	40.2	38	41	43.1	44	39.9	27.4
Ferric Oxide - Fe2O3	7.9	1.7	5.5	3.4	1.8	0.6	1.1
Calcium Oxide - CaO	13.6	2.0	8.4	5.6	4.8	2.7	3.4
Magnesium Oxide - MgO			0.2	0.1	0.2	0.1	0.1
Alkalies, as Na2O & K2O	0.2		0.3	0.3	0.4		0.1
Others, TiO2 etc	1.0	2.6	1.7	1.9	1.3	1.5	2.3