

Properties	Super Blak No.2986	Blakbond	Zelie No.20
Temp. Limit, °F	3000	3000	2700
Estimated lbs. to set 1000			
9" x 4 1/2" x 2 1/2" brick*	200-400	200-400	200-400
Modulus of Rupture (psi)			
Mortar	4200	4000	6100
Modulus of Rupture (psi)			
Dipped Joint, ASTM C 198	375	525	575
Linear Shrinkage, %, @ 212°F	4.3	5.0	4.1
Refractoriness	No Flow	-	No Flow
ASTM C 199	@ 3000°F		@ 3000°F
Chemical Analysis, %			
Silica - SiO ₂	48.8	46.8	48.1
Alumina - Al ₂ O ₃	43.2	46.3	43.1
Ferric Oxide - Fe ₂ O ₃	1.2	1.5	1.6
Titania - TiO ₂	1.5	1.1	1.4
Calcium Oxide - CaO	0.3	0.2	0.3
Magnesium Oxide - MgO	-	-	-
K ₂ O	0.8	0.9	0.9
Na ₂ O	2.4	2.4	2.7
Misc.		0.1	0.8
Ig. Loss	1.8	1.2	1.7
Bulk Density of Refractory Mortars			
As received, pcf	126	129	131
Troweling, pcf	-	-	-
Percent H ₂ O	-	-	-
Dipping, pcf	124	126	123
Percent H ₂ O	4	4	7

* Amount depends on thickness of joint and porosity of the brick.