



Maintaining purity with a "Flux Factor*" of 0.5% or less, Gen-Sil qualifies as an ASTM Type "A" silica brick.

Manufactured in Lehi, Utah

	GEN-SIL®	GEN-SIL® HD	GEN-SIL® ELITE	GEN-SIL® OF	Insulating Brick
					GEN-SIL® Lite
Chemical Analysis: %					
SiO ₂	95.69%	95.5%	95.5%	96.5%	92.28%
Fe ₂ O ₃	0.9	<1.00	<1.0	<1.0	0.73
TiO ₂	<0.1	<0.1	<0.1	<0.1	0.07
CaO	3.0	3.0	3.0	2.0	5.2
Al ₂ O ₃	0.3	0.3	0.3	0.3	1.26
MgO	-	-	-	-	-
Alkalies	0.1	0.1	0.1	0.1	K ₂ O .22
Apparent Porosity:	20 - 23%	19 - 22%	17 - 19%	18 - 20%	-
Bulk Density					
Lb/ft ³	112 - 114	114 - 116	116 - 118	115 - 117	56 - 62
Mg/m ³	1.79 - 1.83	1.83 - 1.86	1.86 - 1.89	1.84 - 1.87	0.93 - 0.99
Specific Gravity					
True	2.34 - 2.37	2.34 - 2.37	2.32 - 2.36	2.32 - 2.36	-
Apparent	2.31 - 2.34	2.30 - 2.34	2.29 - 2.33	2.29 - 2.33	-
Cold Crushing Strength:					
psi	3000 - 5000	3500 - 5500	4000 - 5500	4000 - 5000	-
Mpa	21 - 34	24 - 38	28 - 34	28 - 34	-
Modulus Of Rupture:					
psi	1000 - 1400	1100 - 1500	1500 - 2500	1500 - 2300	235 - 300
Mpa	6.9 - 9.6	7.6 - 10.3	10.3 - 13.1	10.2 - 13.3	1.65 - 2.1

The data above is based on average results on production samples. This data is subject to normal variation on individual tests. Therefore, test data can not be assumed as maximum or minimum specifications. ASTM procedures are used where applicable.

* ASTM "Flux Factor" is calculated as the sum of the alumina plus twice the alkalies.

GEN-SIL® LITE THERMAL CONDUCTIVITY			
° F	Btu•in/hr•ft ² •°F	° C	(W/m.°C)
500	2.5	400	0.382
1000	3.1	600	0.479
1500	4.2	800	0.585
2000	5.4	1000	0.718
2500	7.2	1200	0.878
2800	8.4	1400	1.065