



ABLE 1-6

ABLE 1-6 is a blend of lumnite cement and vermiculite aggregate. Its outstanding feature is its very low thermal conductivity. It provides excellent insulation as back-up material for refractory brick or heavy weight castables

Maximum Recommended Use Limit 2000°F

Bulk Density after drying lb./ft.³ 36

| <u>TEST TEMPERATURE</u> | <u>DENSITY LBS./CU.FT.</u> | <u>COLD CRUSH PSI</u> | <u>LINEAR CHANGE %</u> |
|-------------------------|----------------------------|-----------------------|------------------------|
| 230°F | 36 | 75-125 | 0.3 to -0.6 |
| 1500°F | 32 | 50-100 | -0.7 to -2.5 |

| <u>CHEMICAL ANALYSIS</u> | | <u>THERMAL CONDUCTIVITY BTU/SQ.FT./HR./IN./°F</u> | |
|--------------------------------|------|---|------|
| Al ₂ O ₃ | 35.8 | Mean Temp. | "K" |
| SiO ₂ | 18.6 | 500°F | 3.51 |
| Fe ₂ O ₃ | 7.5 | 1000°F | 1.1 |
| TiO ₂ | 0.7 | 1500°F | 1.3 |
| CAO | 23.1 | | |
| MgO | 8.1 | | |
| Alkalies | 4.2 | | |
| Ign. Loss | 2.0 | | |

Water required for mixing (by weight) 80-90%
 Material required per cubic foot 37 lbs