

# SK 34

| CLASSIFICATION       | Super-Duty Fireclay Brick ASTM C 27, Regular Type               |                    |       |
|----------------------|-----------------------------------------------------------------|--------------------|-------|
| PHYSICAL PROPERTIES  | Refractoriness                                                  | Orton Cone         | 33-34 |
|                      | Bulk Density                                                    | kg/m <sup>3</sup>  | 2230  |
|                      | Apparent Porosity                                               | %                  | 19.0  |
|                      | Cold Crushing Strength                                          | kg/cm <sup>2</sup> | 350   |
|                      | Modulus of Rupture                                              | kg/cm <sup>2</sup> | 80    |
|                      | Permanent Linear Change After Heating at 1600 °C                | %                  | -0.20 |
| CHEMICAL COMPOSITION | Alumina (Al <sub>2</sub> O <sub>3</sub> )                       | %                  | 44.0  |
|                      | Silica (SiO <sub>2</sub> )                                      | %                  | 52.0  |
|                      | Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )                    | %                  | 1.3   |
|                      | Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O+Li <sub>2</sub> O) | %                  | 0.5   |
| THERMAL EXPANSION    | 400 °C                                                          | %                  | 0.26  |
|                      | 800 °C                                                          | %                  | 0.35  |
|                      | 1000 °C                                                         | %                  | 0.47  |
|                      | 1200 °C                                                         | %                  | 0.58  |
|                      | 1400 °C                                                         | %                  | 0.70  |
| THERMAL CONDUCTIVITY | 200 °C                                                          | (W/m.K)            | 1.14  |
|                      | 400 °C                                                          | (W/m.K)            | 1.21  |
|                      | 600 °C                                                          | (W/m.K)            | 1.26  |
|                      | 800 °C                                                          | (W/m.K)            | 1.31  |
|                      | 1000 °C                                                         | (W/m.K)            | 1.40  |
|                      |                                                                 |                    |       |

The above data are typical values of which the properties of the samples tested according to the internal procedure and standard of Siam Refractory generally accepted by our customers for many years. The above data can not be used for specification or guarantee purpose. Siam Refractory reserves the right to update the above data and change our internal procedure and standard without any prior notice.

