

# Sillimanite refractory brick



- $\text{Al}_2\text{O}_3 \geq 57\%$
- $\text{Fe}_2\text{O}_3 \leq 1.2\%$
- Bulk density  $\geq 2.40 \text{ g/cm}^3$
- Cold crushing strength  $\geq 60\text{MPa}$

## Application:

Low thermal expansion rate, erosion resistant, wear resistant, thermal shock resistant. Used in glass production lines, melting furnaces, linings of metallurgical blast furnaces, and kiln furniture in the ceramic industry.

## Technical Data:

Index Items	Machine-pressed			Cast
$\text{Al}_2\text{O}_3 / \%$	$\geq 57$	$\geq 60$	$\geq 65$	$\geq 60$
$\text{Fe}_2\text{O}_3 / \%$	$\leq 1.2$	$\leq 1.0$	$\leq 1.0$	$\leq 1.0$
Bulk density ( $\text{g/cm}^3$ )	$\geq 2.40$	$\geq 2.45$	$\geq 2.50$	$\geq 2.45$
Apparent Porosity (%)	$\leq 18$	$\leq 18$	$\leq 17$	$\leq 18$
Cold Compressive Strength (MPa)	$\geq 70$	$\geq 70$	$\geq 70$	$\geq 60$
Load-Softening Temperature at 0.2MPa, $T_{0.6}/^\circ\text{C}$	$\geq 1560$	$\geq 1580$	$\geq 1650$	$\geq 1550$
Thermal Shock Stability ( $1100^\circ\text{C}$ , water-cooled) (times)	$\geq 25$	$\geq 20$	$\geq 15$	$\geq 25$
Permanent Linear Change on Heating ( $1450^\circ\text{C} \times 2\text{h}$ ) (%)	-0.2 - +0.2	-0.2 - +0.2	-0.2 - +0.2	-0.2 - +0.2