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Fire Protection & Insulation Solutions

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TECHNICAL DATA SHEET

Fire Clay Bricks

Fire Clay Bricks are typically used as linings for kilns, furnaces and boilers they possess mechanical strength and can be subjected to extreme thermal cycling and thermal shock. Fire clay bricks also have a high thermal mass which ensures they retain heat and provide excellent energy efficiency.

Fire clay bricks are made by firing a clay based composition until partly vitrified and for specialist applications can also be produced with a glazed finish. Normally fire clay bricks contain 40-50% alumina depending on the maximum operating temperatures.

Main Properties

The data provided is taken from average test results conducted under standard procedures and conditions and should not be used for specification purposes.

Item	Index				
International Code Name	SK34	SK36	SK37	SK38	SK40
Dimensions	230x115x25 230x150x38 230x114x75 230x115x75				
Al2O3 ,%	≥48	≥55	≥65	≥75	≥80
Fe2O3, %	≤2	≤2	≤2	≤2	≤2
Refractoriness ℃, min	1750	1770	1790	1790	1790
Apparent Porosity %	≤22	≤22	≤23	≤23	≤21
Bulk Density g/cm3	2.25-2.35	2.25-2.35	2.25-2.35	2.25-2.35	2.25-2.35
Cold Crushing StrengthMpa	≥39	≥44	≥49	≥54	≥65
0.2Mpa Refractoriness Under Load T0.2 ℃,min	≥1420	≥1470	≥1500	≥1520	≥1530
Permanent Linear Change On Reheating	+0.1~-0.4	+0.1~-0.4	+0.1~-0.4	+0.1~-0.4	+0.1~-0.4
(%) 1500℃X2h	x1450℃				