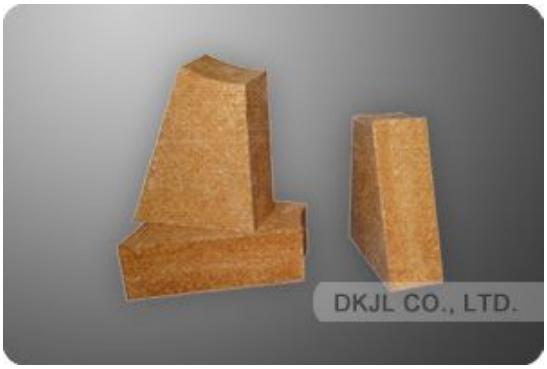
Clay Bricks



Clay bricks use Chamotte that the fire clay is calcinated as the main material. These bricks consist of fire clay and binder. The chemical components of these bricks are SiO2 and Al2O3. (Al2O3=25~40%) fireclay bricks are cheap so that they are used for all kinds of industrial furnaces. The main applications are the low temperature parts such as blast furnaces and hot blast furnaces, waste incinerators and glass melting furnaces. Due to the scale-up of a variety of industrial furnaces and severity of operating conditions, super dense clay bricks that made of more refined chamotte being calcinated at high temperature are applied more than before.

Specifications:

Item	General clay fire bricks	Firebricks for blast furnace	Firebricks for hot-blast stove	Fire bricks for pouring	Firebricks for the lining of temming ladle	Firebricks for steel pouring	Low pore fire bricks
Brand	N-2a	GN-42	RN-42	JZN-40	CN-40	SN-40 XN-40 KN-40 ZN-40	DN-40
Al2O3, % min	42	42	42	40	40	40	42
Fe2O3, % max	--	1.7	--	--	--	--	--
Refractoriness (℃) min	1730	1750	1750	1710	1730	1710	1730
Refractoriness under load of 0.2Mpa(℃) min	1350	1430	1400	--	1400	1370 (SN-40, KN-40)	1390
Apparent porosity, % max	24	16	24	17-25	19	15-23 (SN-40) 22 (KN-40) 15-25(XN-40) 23(ZN-40)	15
Linear change on reburning, %	+0.1 -0.5 1400℃X 2h	0 -0.3 1450℃ X 2h	0 -0.4 1450℃X 2h	+0.1 -0.3 1350℃ X 2h	0 -0.3 1400℃ X 2h	0 -0.3 1350℃ X 2h (XN-40)	+0.1 -0.3 1400℃ X 2h
Cold Crushing strength MPa min	25	49.0	29.4	--	34.3	19.6 (ZN-40)	39