



WT KNOWLES & SONS LIMITED



Firebrick Data Sheet

Firebrick Details

Code	Size	Pack Size	Typical Chemical Composition	
KY132	215 x 114 x 25	1440	Silica(SiO_2)	52%
KY133	215 x 114 x 38	960	Alumina(Al_2O_3)	40-42%
KY134	215 x 114 x 52	720	Titanium dioxide(TiO_2)	2.3%
KY135	215 x 114 x 64	560	Ferric trioxide(Fe_2O_3)	2.0%
KY136	215 x 114 x 76	512	Calcium oxide(CaO)	0.3%
			Magnesium oxide(MgO)	0.3%
			Alkalies	0.7%

Refractory Firebricks supplied by WT Knowles are dense bricks with low porosity and will provide a long service life. They are particularly suitable for domestic applications such as open coal or wood fires.

The maximum recommended service temperature is 1600°C

The colour shade of the firebricks is variable due to the firing process during manufacture, the thickness of the brick and the position of the brick in the kiln.

Cutting Firebricks

Firebricks should be cut with a 'Stihl' type of saw or other suitable cutting equipment. Water should be applied to the blade during the cutting operation to maintain the dust suppression.

Alternatively, before cutting, soak the brick in water for a minimum of 5 mins. This will make the cutting operation easier and faster, improve the life of the cutting blade and minimise airborne dust.

Operators should wear gloves, eye protection and a mask. Cutting is recommended in an open and well ventilated location.

We do not recommend the use of Knowles fireclay in the construction of pizza ovens or outside barbeques. This is because the required minimum temperature of 800°C necessary to fully cure the mortar to full strength will not normally be achieved.

For applications such as pizza ovens or outside barbeques, we recommend Knowles Airset Fire Cement Code KFC.



07-08-2018