



WT KNOWLES & SONS LIMITED



Fireclay Data Sheet

Fireclay

In order to satisfy a wide range of temperature applications, WT Knowles offers two solutions of heat resistant mortars suitable for use in the construction of a variety of high temperature enclosures such as open fires, ovens and barbeques.

Knowles Fireclay

Knowles fireclay is a 50:50 blend of Shelley Blue Shale Clay and Calder Sager Fire Clay which is ground to a 10 mesh (2mm) particle size.

It is available as a dry material in individual 25kg bags - Product Code KYI37D or in bulk - Product Code KYI38D.

Alternatively, it can be supplied pre-mixed with water as a Wet Moulder's Clay, either in individual 25kg bags – Product Code KYI37W or in bulk – Product Code KYI38W.



Fire Clay
Code: KYI37D

Using Knowles Fireclay

Knowles Fireclay is only recommended for furnaces where the temperature will exceed 800°C.

Prior to use, the fireclay should be mixed with Portland Cement in the ratio – 2 parts fireclay to one part cement. Dry fireclay should be mixed with water to achieve a consistency similar to soft butter. Avoid making the mixture too wet but more water may be added if the mixture begins to dry out.

Application should be by trowel with a joint thickness between 1mm and 3mm.

The fireclay material is a grey colour but will change to a light terracotta colour after firing.

Curing the fireclay to full strength will require a minimum temperature of 800°C for approximately 3 hours.

Knowles Fireclay is not recommended for use in the construction of pizza ovens or outdoor barbeques because the required minimum temperature of 800°C to cure the fireclay to full strength will not normally be achieved.

For applications such as pizza ovens or outdoor barbeques, the use of Knowles Airset Fire Cement (Code KFC) is recommended. (See separate data sheet).

Knowles Fireclay is not recommended for applying as a skimming render on the outside or inside surfaces of a Firebrick construction.

General

When lighting fires for the first time or following a long period of non-use, heat must be applied slowly

Prior to working with fireclay material, refer to *WT Knowles Material and Safety Data Sheets(MSDS) for Clay Products*.

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