

ENERTEK*

Premium crucibles for non-ferrous applications

Product Description

High thermal efficiency crucibles designed to minimize energy consumption in aluminium melting and holding furnaces.

Benefits

The thermal performance of the crucible has a significant impact on foundry costs and can lead to a considerable energy cost saving and related reduction in CO₂ emissions.

This is particularly true of aluminium melting and holding furnace applications where the energy consumed over the lifetime of the crucible represents a cost that is many times that of the original purchase price of that crucible.

ENERTEK crucibles have been formulated and manufactured to offer the most thermally efficient crucibles for melting and holding molten aluminium.

ENERTEK crucibles can be applied to all standard designs of aluminium melting and holding furnace but are particularly effective in electrically heated furnaces. To achieve the maximum benefit from ENERTEK crucibles, they should be installed and operated in accordance with the published Foseco use and care guidelines.

The formulation and manufacturing process for ENERTEK crucibles have been selected to give maximum thermal efficiency. The external protective glazes have been chosen to work effectively at the lower temperature typically found in aluminium holding furnace applications thereby maintaining typical crucible life.

Application

Melting and holding of aluminium as well as other low temperature applications.

To “dry-out” the crucible and furnace slowly heat up to 200°C in 2 hours.

Then quickly heat up within one hour to min. 800°C to ensure a uniform fusion of the glaze with additional anti-oxidation coating.

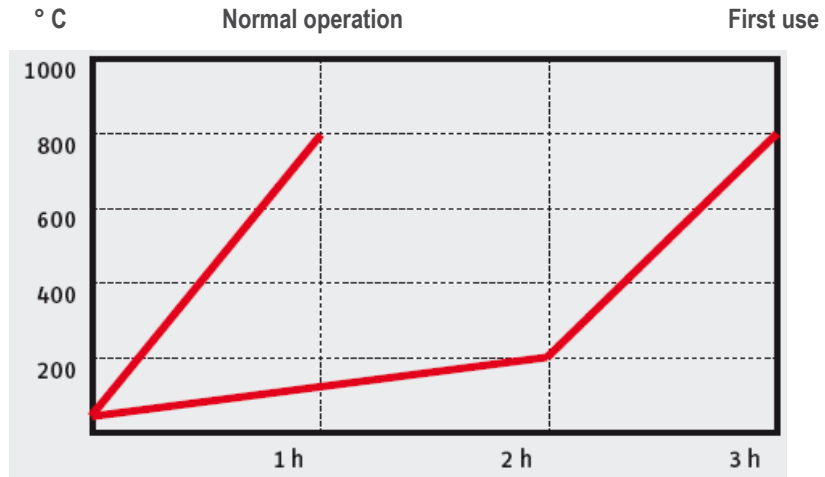
Subsequently, bring the crucible to working temperature and charge immediately.

After its first use the “dry-out” cycle of 2 hours is no longer necessary, only if the crucible is out of use for several days do you have to repeat the start up procedure.

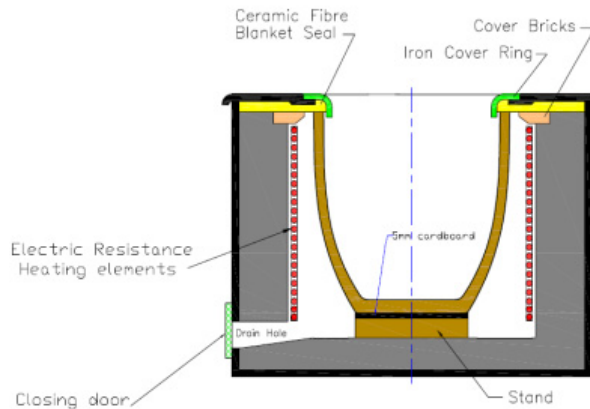
Heating the crucible too slowly or failure to achieve a temperature of 800°C during the first use will have a considerable negative influence on crucible life.



Technical Data



Electric resistance holding furnace



Product Range

ENERTEK crucibles are available in a range of sizes typically used for aluminium melting and holding furnace applications. Further sizes and designs can be provided upon request.

Packaging

Standard Packaging is shrink-wrapped on pallets.

Storage & Shelf Life

ENERTEK crucibles should be stored in warm and dry conditions.
(For more information see our catalogue and crucible use & care guide)

Health & Safety

See Material Safety Data Sheet, copies of which are available on request.

Further Remarks

ENERTEK crucibles are manufactured to ISO9001 and ISO14001 quality standards.

For safety reasons the product mentioned above must only be used according to these application guidelines. The above-mentioned data are guidelines only and do not represent a specification. All rights to make technical changes to improve the product are reserved.