



VERSATILE, EFFICIENT, COST EFFECTIVE

## CRUCIBLES

FOR NON FERROUS FOUNDRY APPLICATIONS

Energy efficient

Long life

Fast melting

Tailor made

High volume



VESUVIUS



## High performance

rotational moulded and isostatically pressed crucibles

As a reliable and trusted supplier of crucibles, retorts and associated products, Foseco can help you to optimise your melting and processing operations, reduce energy consumption and maximise crucible life.

### The right crucible for every application

Foseco offers the foundryman a complete range of silicon carbide and clay graphite crucibles, retorts and other specialised shapes for use in fuel fired, induction and electric resistance furnaces.

Foseco crucibles offer the following benefits:

- Energy efficient  
Foseco crucibles are thermally efficient and require less energy to melt and hold the liquid metal.
- Long life  
With careful handling and maintenance, excellent crucible life can be achieved.
- Fast melting  
High thermal conductivity ensures that charge materials are melted quickly and effectively saving time and money.
- Tailor made  
A wide range of standard shapes and sizes are produced. Customised shapes and sizes are available on request.
- High capacity  
Foseco offers large crucible sizes. Aluminium crucibles of more than 2 tonnes are available.

### The Foseco crucible qualities

#### ■ ENERTEK\*

A new family of energy efficient crucibles that have been formulated and manufactured to offer the most thermally efficient crucible for melting and holding aluminium.

#### ■ DIAMANT\* SPECIAL

Premium quality, isostatically pressed crucibles for low temperature applications with good thermal conductivity and chemical attack resistance.

Ideally suited for the melting and holding of aluminium as well as other low temperature applications.

#### ■ DIAMANT UNIVERSAL

Premium quality, isostatically pressed crucibles with good thermal conductivity. Suitable for a wide range of applications including:

- melting and holding of copper alloys
- melting of aluminium in flame-fired furnaces
- precious metals
- zinc distillation

#### ■ DIAMANT OPTIMAL

Isostatically pressed, carbon bonded crucibles with very low electric resistivity. Ideally suited for use in low and medium frequency induction furnaces.

■ DIAMANT SUPER RAPID & SUPER RAPID SPECIAL  
Rotational moulded clay graphite crucibles with very good thermal, mechanical shock and chemical attack resistance. Suitable for a range of applications including:

- melting and holding of copper alloys
- precious metals

a Special version is available for lower temperature applications.

#### ■ DIAMANT TOP

Isostatically pressed crucibles with very high electric resistivity. Specially designed for use in high frequency and/or high power induction furnaces.

#### ■ KING-CARB\*

Isostatically pressed, carbon bonded crucibles suitable for a broad range of low and high temperature applications.

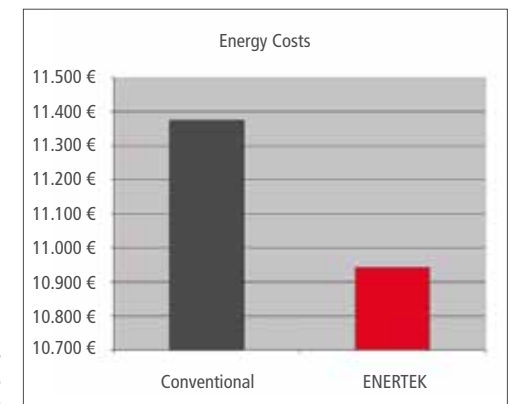
#### ■ TERCOD\*

Rotational moulded, carbon bonded crucibles with high thermal and mechanical shock resistance.

For detailed application information please refer to the individual product datasheets.



Crucibles are used for melting and holding



Comparison of energy costs conventional crucible vs. ENERTEK crucible



Tailor made crucibles are available

# Quality, consistency and flexibility

## Research and development

As the quality demands from end-users of castings increases, it is essential that foundry technology keeps pace. Foseco continually invest resources in the research and development of innovative solutions to the problems of today and tomorrow. Development laboratories work closely with in-house casting facilities to ensure new product developments fully meet the customer's needs.

## Consistency

Controlled and automated manufacturing processes ensure that products are supplied to a highly consistent specification, minimising batch to batch product variations.

## Quality assurance

Accredited quality assurance systems ensure optimal testing of finished products, and provides a framework for continual improvement and further process optimisation.

Development and process control to meet the highest foundry requirements



The crucibles are manufactured using highly sophisticated production lines to ensure consistent performance



Training and service



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COMMITTED TO FOUNDRIES

VESUVIUS