

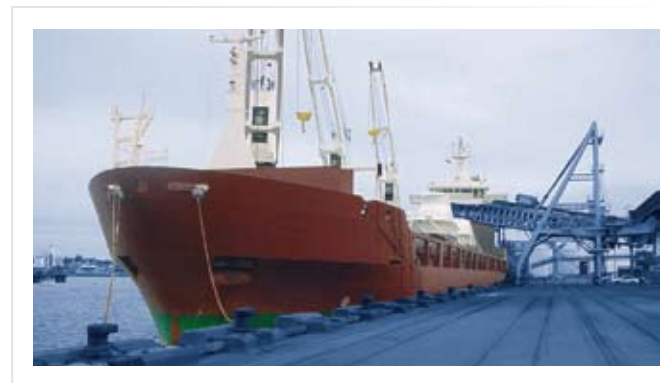


 **zircosil**[®]
for Investment Casting Products

 ENDEKA

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Endeka is one of the worlds leading manufacturers of processed zircon products and as such is one of the world's largest purchasers of premium grade zircon sand. Whilst zircon is a naturally occurring mineral, the selection of our sources of supply of this raw material is based on many important factors such as: mineral quality, long term consistency, stability, sustainability of supply, transport and logistical costs. Our processing facilities are continually upgraded in order to provide low cost best practice manufacturing and all our plants are supported by centralized engineering, technical and technology services and product applications specialists.



Endeka provides the most comprehensive range of technical expertise to meet the exacting requirements of today's wide ranging customer needs.

Whilst our central research laboratories strive towards future developments, immediate customer requirements are met through our dedicated technical staff and manufacturing site laboratories.





Zircosil® products are used in investment casting where the excellent refractory properties enable strong ceramic shell moulds to be produced with a fine texture. Since the cast metal does not stick to the mould even at high casting temperatures, easy separation is achieved with the casting needing minimum secondary finishing operations.



Endeka have developed specialised grades of zircon employing dedicated plant to satisfy the needs of precision casters. Our unique calcination process temperature enable us to meet the exacting requirements for the aero-space industry for impurity levels.

Types of casting produced using zircon moulds vary from: turbine blades and automotive parts to prosthetics and golf club heads.

Endeka products used include:

zircosil® 200M and

zircosil® 300M generally for primary dip and granular calcinated or uncalcinated for primary stucco coating.





Product Range

The extensive range of Zircosil® products is so well established that world market leadership has been achieved. Reputation for quality products has been acquired by many years of research, development and customer involvement. Endeka is able to source the best quality raw materials for its products from ecologically certified suppliers and offers great flexibility in supply by having manufacturing sites in Europe, Asia, North and South America.



Product Portfolio

Primary Dip Slurries

These products are fully compatible with both silica sol and ethyl silicate based binder systems producing slurries with good flow properties, whilst the resultant ceramic mouldings manufactured from these products, impart excellent surface finishes to castings.

- **zircosil® 200M** (calcined)
This product combines the benefits of controlled calcination and particle size, together with admirable chemical purity and refractory properties, which is ideally suited to investment castings.
A zirconium silicate flour (nominally 200's mesh) manufactured from previously controlled calcined sand.
- **zircosil® 300M** (calcined)
This product combines the benefits of controlled calcination and particle size, together with admirable chemical purity and refractory properties, which is ideally suited to investment castings.
A zirconium silicate flour (nominally 300's mesh) manufactured from previously controlled calcined sand.
- **zircosil® D**
A zirconium silicate flour (nominally 325's mesh) manufactured from a secure and consistent supply of high grade zirconium silicate sand.

Primary Stucco Coating

A zircon sand, which has been separated from other mineral sands by ore dressing techniques. The material is supplied to a guaranteed chemical composition at a range of particle sizes, subject to availability.

- **zircosil® SC** (granular calcined)
A high grade zirconium silicate sand, quality controlled to a particle size equivalent to AFS grade 100. This product combines the benefits of controlled calcination together with admirable chemical purity and refractory properties, which is ideally suited to investment castings.
- **zircosil® S** (granular uncalcined)
A high grade zirconium silicate sand quality controlled to a particle size equivalent to AFS grade 100 and is ideally suited to investment casting.

For comprehensive technical and material safety data sheets go to:
www.zircosil.com

INFO: zircosilinvcast@endekaceramics.com



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