



REDUCTION OF ENERGY CONSUMPTION IN ZINC OXIDE PRODUCTION

PARAMETER:

Furnace: Gas Fired crucible furnace
Capacity: 2.5t liquid zinc

RETORTS AND CRUCIBLES FOR ZINC OXIDE

MANUFACTURER:

Zinc Dust/Powder is used in various industries, i.e. in zinc rich paint to protect steel surfaces from corrosion. The manufacturers are using retorts and crucibles for their zinc vaporization processes.

FOSECO PRODUCTS

ENERTEK* ZnO BP-Crucible

KEY BENEFITS

Productivity increased, Zinc Vaporization rate by +55%

Crucible lifetime increased by 25%

CO₂ emission reduction*: 34%



Zinc Dust is an essential component of most heavy duty coatings



Different types of ENERTEK ZnO Retorts and Crucibles



THE CHALLENGE

Manufacturers of Zinc powder are continuously seeking for ways to reduce energy consumption, the main driver of their costs. A simple way to reduce energy costs and improve productivity is to increase the heat transfer through the crucible body.



OUR SOLUTION

ENERTEK ZnO provides highest thermal efficiency by state of the art manufacturing technology.



THE OUTCOME

In this case the usage of crucibles with Foseco's ENERTEK ZnO technology led to a reduction in gas usage by 34%. An extended crucible life by 25% was a positive side effect. The increased productivity and cost reduction means a general growth of profitability.

