



Bernhard Jacob G E S H

REFRACTORY MATERIALS





Refractory Materials und Specialty Products since 1950

During its more than 50 years lasting history the company has developed to a well known special supplier for refractory materials. In this connexion the nearness to the local companies of the iron and steel industry had an important influence. Our products are developed and adjusted in close contact with our customers.



The company Bernhard Jacob GmbH in Völklingen-Ludweiler is family owned, since its foundation by Mr. Bernhard Jacob (1923 – 2001) in the year 1950. The clientele consists primarily of customers from the iron and steel industry. For this application field the company offers a wide variety of products and the respective services.

Within the first 20 years, products from the winning of sand and the production of non silicosis causing blasting agents were the core of the overall production.

First contacts to the iron and steel industry developed already during the 50`s due to the delivery of foundry sands. In 1972, the production of different slide gate filling sands for the steel mill sector was started.

In order to comply with the frequently increasing customer-specific requirements concerning the refractory products, the company intensified investments in the construction of modern, fully electronically controlled production facilities and in the equipment of the research & development department between 1980 and today.

The cooperation with nearby steel mills and the application-technological laboratories of the supplier industry are the ideal requisites for developing and implementing customer-specific products.

Based on these requisites and on the company's 30-year experience in the iron and steel industry, the product variety could be expanded by monolithically formed components, unshaped refractory products, such as covering mixes for ladles and spray gunning mixes of different kinds as well as refractory castables and ramming mixes.

The raw material supply in constant quality was ensured by the construction of a highperformance grinding and classification facility as well as by the creation of large storage capacities for raw materials.





Products for Steelworks

The Bernhard Jacob GmbH has developed a wide range of high quality products for the iron and steel industry and has placed them successfully in the market. Individual customer demands and complex applications are the impulse, which motivates us every day to top efficiency.



Products for Steelworks

Torpedo Ladle:

- High-alumina mixes for the torpedo ladle mouth
- Magnesite hot gunning materials
- High-alumina repair gunning materials

Pig Iron Ladle:

- Prefabricated elements for de-slagging

Converter:

- Magnesite hot gunning materials
- Magnesite tap hole repairing castables
- Magnesite cold gunning materials for the vessel lip ring

Electric Arc Furnace:

- Magnesite hot gunning materials
- Electrode sealing rings
- Vibrational castables for the electric arc furnace roof

Casting-, Transport-, Treatment Ladle:

- Filling sands for slide gates
- Purging nozzle bricks (high-alumina- and/or spinel containing)
- Slide gate pocket blocks (high-alumina- and/or spinel containing)
- Protective shields for the slide gate system
- Refractory mastics
- Insulating castables for the ladle heating cover
- Vibrational castables for the ladle cover
- Magnesite cold gunning materials for the ladle lip ring
- Magnesite hot gunning materials for the ladle repair
- High-alumina vibrational castables for the ladle to use as permanent lining
- Basic covering mixes for the ladle
- Slag forming additives (flux for making slag)

RH Degasser:

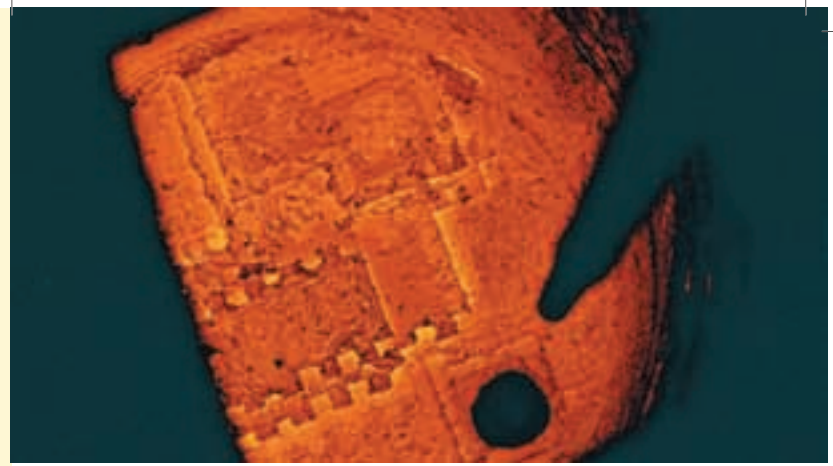
- Magnesite hot gunning materials
- Vibrational castables for monolithic production of the submerged nozzles

Tundish:

- Gunning materials for the rear insulation
- Castables for the tundish permanent lining
- Magnesite and acid spray gunning mixes for the use as wear lining
- Magnesite dry vibratable mixes for the use as wear lining
- Prefabricated tundish furniture (high-alumina- or magnesite base)
- Mortars for setting the MTA's
- Vibrational castables for monolithic relining of the tundish covers
- Prefabricated tundish covers

Trading Products

- Bricks for all applications in steelworks
- Slide gate plates for ladle and tundish
- Isostatic products





Laboratory and Quality Management

By the use of modern analysis technologies our experienced qualified personnel is continuously concerned with the advancement of our products. A state-of-the-art quality management system ensures the quality of our products and so durable the success of our company.





Due to the increased quality requirements, the buildup of a quality assurance system according to DIN ISO 9001 – EN 29001 was started at the end of the 80's.

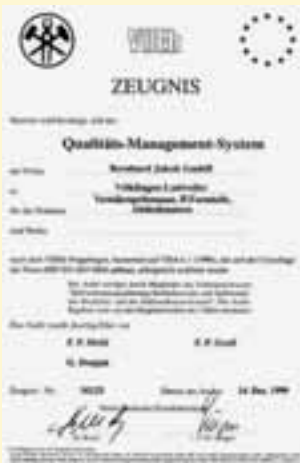
Since 1994, the company is in the possession of a quality certificate of the VDEh – Steel Mill Committee and since the beginning of 2004, the company is certified according to DIN EN ISO 9001:2000.

With the establishment of several modern laboratories since 1990, almost all chemical, physical and mineralogical examinations for the determination of quality-related data can be performed within the company.

By the help of the quality assurance system and the innovative laboratories, the company is able to arrange and to monitor delivery specifications with its suppliers as well as with its customers.

Within the scope of the implemented quality assurance system, the production process can be traced back from the final product to the delivered raw material.

Today, it goes without saying that in accord with the customer, a test certificate for every delivery can be issued by the production plant.





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G E B H

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