Quality crucibles

The demand for crucibles in Brazil was met by foreign suppliers until 1965, when local production began. In 1989, Corona Brasil entered the market.

A selection of quality crucible products from Corona

A new challenge was born: to enter a restricted and highly technical market, with supply concentrated in large companies, and products which demand state of the art technology.

It didn’t take long for Corona Brasil to succeed in this new challenge. Its young collaborators together with a modern plant and over 30 years of experience in the metalwork and foundry industries, enabled the new company to revolutionise the Brazilian crucible market.

Producing a complete range of products made of silicon carbide, including crucibles, stands, and spouts cement for setting spouts and stands; and also providing small repairs to the crucibles. In order to continue supplying a market which needs increasingly rapid responses, Corona Brasil constantly improves its production, management and manufacturing processes.

The quality factor has always been a constant concern in the products developed by Corona Brasil. From its production line through employee health and safety, to environmental protection, quality is always borne in mind. This manifests itself into reliability of information, and excellence in customer and supplier services. The company considers its customers to be its partners.

Corona Brasil has a complete laboratory for raw material physical testing and production monitoring. Its products also undergo chemical analysis carried out by the laboratories and authorised by the “Instituto Nacional de Metrologia, Normalização e Qualidade Industrial” (INMETRO) - the Brazilian National Institute of Industrial Measuring, Standardization and Quality. It is a government institute, internationally accepted as the official certifier of quality and measuring evaluation in Brazil.

Corona was ISO 9002 Certified in June 1996, which emphasises the company commitment to total quality. For Corona Brasil this award, unique to a producer of silicon carbide crucibles in South America, was considered not only an achievement, but the start of an ongoing improvement process.

Since 1989, Corona Brasil has been expanding its capacity, having already conquered 60% market share of the Brazilian silicon carbide crucible market.

Since the beginning of its activities the company has always demonstrated an interest in exporting its products, through exhibitions and international fairs like GIFA, Foundex Europe, Metals Engineering, Anisios and CONAF/FENAF. Its presence on the international market has been growing steadily. Nowadays, the company has various representatives and distributors all over the world and has been exporting regularly to Latin America, Europe, Asia and Africa.

Reader Reply No.31

Systematic moulding sand preparation

Michenfelder GmbH & Co KG has the complete sand system under control.

On the basis of Michenfelder GmbH & Co KG’s successful automatic moisture measuring and control system - series MICOMP UNI that makes it possible to produce uniform moulding sand quality in coolers and mixers of various designs and manufacturers - it is now also possible to monitor and control the complete sand system.

Additional moisture sensing points with self-calibrating, self-cleaning and tilting probes on conveyors, chutes or in free falling material, make additional quality assurance reliability with each batch.

Combined with the mechanical on line sand testing systems VEDIMAT and SANDLAB (mounted ahead of the moulding machine), the most important mechanical sand parameters - such as compactability, deformability, bulk weight and shear strength as well as the option of compression strength for solids content assessment - reliably under control. Bentonite consumption can be managed much more economically than was previously possible.

By setting the correct parameters, the combination of MICOMP UNI and VEDIMAT or SANDLAB guarantees free choice in moulding sand preparation as a function of assessed moisture or compactability. Using the automatic sand testing system MSC (mounted ahead of the mixer), moulding sand quality can be controlled on the basis of compactability. MSC is optionally available with moisture, temperature, compression strength and bulk weight sensing equipment. Incorporating the quality assurance and process visualisation system MiPro into a sand preparation plant means it will be fully networked. MiPro software has a modular design, for data archiving and display of all process data obtained through the company’s systems, that offers standard data base functions such as trend and statistics analysis functions etc.

Thus, the foundry has the complete moulding sand preparation process fully under control, starting with the knock out grid, across the cooler and the mixer, and up to the moulding machine. Because of complex requirements of the interface architecture, MiPro is supplied as a complete kit, including a pre-configured PC.

At GIFA 2003, Michenfelder GmbH & Co KG will present an automatic bentonite metering and control system, that is - through intelligent addition at the right time and place - an outstanding tool for improved preparation economy and considerable sand quality improvement.

The modular design of the system leaves enough room for individual adaptation to technical requirements or available budgets.

Reader Reply No.32