
大型構造用サイアロン

Large SIALON Products for Structural Use

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セラミックス事業拡大の一環として大型構造用サイアロン製品の開発に取り組んできた。サイアロンは、高温における強度、耐摩耗性に優れるとともに、耐溶損性を併せ持った構造用セラミックス材料として注目され、実用化が進んできた。サイアロンはアルミニウム溶湯関連分野を中心に構造用材として適用していく過程で、その優位性の評価が定着してきたが、最近では、より大型製品のニーズが出てきた。大型焼結炉の導入で設備的にも環境を整え、順次ニーズに応える形で大型製品を市場に投入してきた。その結果は概ね良好であり、広がりを見せている。大型製品の開発に当たっては各製造工程において製造技術やノウハウを蓄え、次なる展開に備えている。

As part of our ceramics business promotion activities, we have been developing large SIALON products for structural use.

SIALON thanks to its excellent high-temperature strength, has wear and corrosion resistance against molten metals, so it has attracted much attention as a promising material for structural parts and has been applied to many practical uses.

In the course of our application trials mainly for an aluminum melting and casting industries, we have demonstrated the superior performance of this material and many demands for application to large parts have arisen as a consequence. Responding to these demands, after the installation of a large sintering furnace, we have supplied several kinds of large items to the market. Their performance has generally been satisfying and there are still many offer possibilities to apply this material to other items. We are still trying to make large new items with our production techniques and know-how in every production process.