

Abstract

Refractory product having a high zirconia content

The invention relates to a molten cast refractory product comprising, in weight percentages on the basis of the oxides and relative to a total of 100% of the oxides:

$\text{ZrO}_2 + \text{Hf}_2\text{O}$ is the remainder making up 100%,

$4.5\% < \text{SiO}_2 < 6.0\%$,

$0.80\% \leq \text{Al}_2\text{O}_3 < 1.10\%$,

$0.3\% < \text{B}_2\text{O}_3 < 1.5\%$,

$\text{Ta}_2\text{O}_5 + \text{Nb}_2\text{O}_5 < 0.15\%$,

$\text{Na}_2\text{O} + \text{K}_2\text{O} < 0.1\%$,

$\text{K}_2\text{O} < 0.04\%$,

$\text{CaO} + \text{SrO} + \text{MgO} + \text{ZnO} + \text{BaO} < 0.4\%$,

$\text{P}_2\text{O}_5 < 0.05\%$,

$\text{Fe}_2\text{O}_3 + \text{TiO}_2 < 0.55\%$,

and other oxide species $< 1.5\%$,

the "A/B" ratio of the $\text{Al}_2\text{O}_3 / \text{B}_2\text{O}_3$ contents by weight being between 0.75 and 1.6. The invention can be applied to glass melting furnaces.