

Title (en)  
REFRACTORY PRODUCT HAVING A HIGH CONTENT OF ZIRCONIA

Title (de)  
FEUERFESTES PRODUKT MIT HOHEM ZIRKONOXIDGEHALT

Title (fr)  
PRODUIT REFRACTAIRE A HAUTE TENEUR EN ZIRCON

Publication  
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Application  
**EP 11807785 A 20111215**

Priority  
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Abstract (en)  
[origin: WO2012080981A1] The invention relates to a process for manufacturing a refractory product, comprising the following successive steps: a) mixing of raw materials so as to form a suitable feedstock so that the block obtained in step d) comprises more than 85% of ZrO<sub>2</sub>, b) melting of said feedstock until a molten material is obtained, c) optionally, casting said molten material, d) cooling of the molten material to solidification in the form of a block; e) optionally, heat treatment, process comprising a compression operation in which a compression pressure of greater than 0.2 MPa is applied to at least one portion of the outer surface of the block obtained in step d), the compression operation beginning at a temperature above the temperature at which, in said block, tetragonal zirconia is converted to monoclinic zirconia or "phase transformation temperature", and ending at a temperature below said phase transformation temperature.

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