

Title (en)
POWDER COMPRISING ZIRCONIA GRANULES

Title (de)
PULVER MIT ZIRKONOXIDGRANULAT

Title (fr)
POUDRE DE GRANULES DE ZIRCON

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Application
EP 10814667 A 20101221

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Abstract (en)
[origin: WO2011077381A1] The invention relates to a granulated powder intended, in particular, for the production of ceramic sintered parts, said powder having the following chemical weight composition, based on dry matter, namely: a zirconia stabiliser selected from the group containing Y₂O₃, Sc₂O₃, MgO, CaO, CeO₂, and mixtures thereof, the weight content of stabiliser, based on the total zirconia and stabiliser content, being between 2 % and 20 % and the MgO + CaO content being less than 5 % based on the total zirconia and stabiliser content; at least 1 % of a first binder having a glass transition temperature less than or equal to 25 °C; 0 - 4 % of an additional binder having a glass transition temperature greater than 25 °C; 5 - 50 % alumina; 0 - 4 % of a temporary additive different from the first binder and the additional binder, the total content of the first binder, the additional binder and the temporary additive being less than 9 %; less than 2 % impurities; and ZrO₂ to make up 100%. According to the invention, the median diameter D₅₀ of the powder is between 80 and 130 µm, the percentile D_{99.5} is less than 500 µm and the relative density of the granules is between 30% and 60%.

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Citation (search report)
See references of WO 2011077381A1

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