

Title (en)  
ZIRCONIUM OXIDE POWDER

Title (de)  
ZIRCONIUMOXIDPULVER

Title (fr)  
POUDRE D'OXYDE DE ZIRCONIUM

Publication  
**EP 2344427 A1 20110720 (FR)**

Application  
**EP 09787335 A 20090930**

Priority  
• IB 2009054288 W 20090930  
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Abstract (en)  
[origin: WO2010038204A1] The invention relates to a powder having a maximum particle size D<sub>99,5</sub> of less than 200 µm, a porosity index I<sub>p</sub> higher than 2, the porosity index being equal to the ratio Asr/Asg where Asg is the theoretical geometrical specific surface area of the particles of the powder, and Asr is the measurement of the real specific surface area by the BET method, and/or, when all the dimensions of the base particles of the powder are higher than 50 nm, a specific surface area higher than 10m<sup>2</sup>/g and a total of mesoporous and microporous volumes higher than 0,05 cm<sup>3</sup>/g. More than 20 % of said powder is formed from base particles which are aggregated or not, have dimensions which are all higher than 200 nm, a sphericity index of less than 0.6, and consist of a zirconium oxide and/or a hafnium of formula MO<sub>x</sub>, M being Zr<sup>4+</sup>, Hf<sup>4+</sup>, or a mixture of Zr<sup>4+</sup> and Hf<sup>4+</sup>, and x being a non-zero positive number.

IPC 8 full level  
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CPC (source: EP)  
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