

Title (en)  
ACTIVATED ALUMINUM/DEPOLYMERIZED ZIRCONIUM ANTIPERSPIRANT COMPOSITIONS

Title (de)  
AKTIVIERTE ALUMINIUM/DEPOLYMERISIERTE ZIRKONIUM-ANTIPERSPIRANS-ZUSAMMENSETZUNGEN

Title (fr)  
COMPOSITIONS ANTISUDORIFIQUES D'ALUMINIUM ACTIVE/ZIRCONIUM DEPOLYMERISE

Publication  
**EP 1814508 A1 20070808 (EN)**

Application  
**EP 04796066 A 20041022**

Priority  
US 2004035006 W 20041022

Abstract (en)  
[origin: WO2006046945A1] An aluminum-zirconium antiperspirant composition comprising activated aluminum and depolymerized zirconium species is characterized by an Inductively Coupled Plasma (ICO)-Size Exclusion Chromatography (SEC)-HPLC method. A good correlation is obtained between the intensity of the zirconium peak at retention time of about 4.3 minutes to about 4.9 minutes by ICP-SEC-HPLC and the extent of the polymerization of the zirconium species, such that the higher the intensity of the zirconium species, the greater the polymerization of the zirconium species. The extent of the polymerization of zirconium species in the activated aluminum-zirconium salt is affected by the factors and reaction conditions such as the ratio of chloride to zirconium in a zirconium hydroxy chloride (ZHC) solution; the heat treatment of the ZHC glycinate solution; and the concentration of activated basic aluminum chloride (BAC) solution. Controlling the reaction conditions yields a novel aluminum-zirconium antiperspirant salt of enhanced efficacy having activated aluminum and depolymerized zirconium species.

IPC 8 full level  
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