

Title (en)

TITANIUM TRICHLORIDE COMPOSITIONS, PREPARATION THEREOF, CATALYST SYSTEM CONTAINING THEM, AND POLYMERISATION OF OLEFINS USING THIS SYSTEM

Publication

EP 0000999 B1 19810527 (EN)

Application

EP 78300285 A 19780814

Priority

- GB 2173378 A 19780524
- GB 3634377 A 19770831

Abstract (en)

[origin: EP0000999A1] A titanium trichloride composition has the formula: $\text{TiCl}_3(\text{AlR}_x\text{X}_{3-x})_n\text{EaLb}$ where E is an ether or thioether; L is a defined ester, an amine or a ketone; and a and b are each greater than 0.001 and not more than 0.50. The composition has a low surface area, typically less than $50 \text{ m}^2/\text{g}$. The composition can be prepared by reacting titanium tetrachloride with an organo-aluminium compound, optionally heating the reaction product, contacting the reaction product at an elevated temperature with at least one of E and L and washing the product subsequent to the treatment with E. In the composition, E is conveniently di-n-butyl ether or diisoamyl ether and L can be tetramethylethylenediamine; ethyl benzoate; benzophenone; glycerol monostearate; glycerol triacetate; glycerol tripalmitate; glycerol trimethacrylate; pentaerythritol tetra-acrylate or ethyl phenyl acetate. The composition can be used as a component of a catalyst for the polymerisation of olefine monomers such as propylene. Copolymers having a useful combination of properties can be obtained.

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IPC 8 full level

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CPC (source: EP US)

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