

5569635**CATALYST SUPPORTS, SUPPORTED CATALYSTS AND METHODS OF MAKING AND USING THE SAME**

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A supported catalyst comprising a carbon fibril aggregate and a catalytically effective amount of a catalyst supported therein, a process for performing a catalytic reaction in fluid phase using the supported catalyst and a process for making the supported catalyst are disclosed.

5569805**CATALYTIC CONVERSION OF AROMATIC COMPOUNDS**

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A process is provided for catalytic conversion of feedstock comprising aromatic compounds to product comprising aromatic compounds which differs from said feedstock. The catalyst required in the process comprises a crystalline material having the structure of MCM-58. Said crystalline material may have been treated with one or more monomeric or polymeric siloxane compounds which decompose to oxide or non-oxide ceramic or solid-state carbon species.

5569806**OLEFIN ISOMERISATION PROCESS USING METALLIC CATALYSTS IMPREGNATED WITH ORGANIC SULPHUR-CONTAINING COMPOUNDS BEFORE LOADING INTO THE REACTOR**

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The invention concerns a process for the isomerisation of less substituted olefins to more substituted external olefins and/or internal olefins in the absence of diolefins, in the presence of a palladium based catalyst deposited on a support. Before loading it into the reactor, said catalyst is treated with at least one sulphur-containing compound which is dissolved in a solvent then activated in a neutral or reducing atmosphere between 20°C. and 300°C., 1 and 50 bars and with a VVH of 50 to 600 h-1. The catalyst, containing 0.05% to 10% by weight of sulphur, is brought into contact with the feedstock and hydrogen between 20°C. and 200°C., 1 and 50 bars, a VVH of 0.5 to 10 h-1 and a H₂/olefin molar ratio of 0.01 to 1.

POLYMERS**5565396****CATALYST SYSTEMS AND POLYMERIZATION PROCESSES**

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In accordance with the present invention there is provided a cyclopentadienyl-type ligand represented by the formula ZA, wherein Z is a cyclopentadienyl-type group, wherein A is -YPR₂,