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(54) Title: CATALYSTS OF THE ZIEGLER-NATTA TYPE FOR THE (CO)POLYMERIZATION OF OLEFINS WITH A HIGH PRODUCTIVITY

(57) Abstract: Solid catalyst with a high thermal stability for the (co) polymerization of α -olefins, comprising titanium, magne-
sium, at least one metal selected from hafnium and zirconium, aluminum and chlorine, wherein at least 60% of the titanium is in
oxidation state +3, and, when examined by means of XPS spectroscopy, has an absorption band characteristic of a binding energy
ranging from 455 to 458 eV. Said catalyst, used in combination with a suitable co-catalyst in (co) polymerization processes of α -
olefins at a high temperature, shows an improved productivity, a high incorporation of co-monomers in the copolymerization of
ethylene and an increased thermal stability with respect to the systems so far in use.



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