

Catalyst composition for oligomerization of ethylene oligomerization process and
method for its preparation

ABSTRACT

Catalyst composition for the oligomerization of ethylene, comprising (i) an at least partially hydrolyzed transition metal compound, obtainable by controlled addition of water to a transition metal compound having the general formula $\text{MX}_m(\text{OR}')_{4-m}$ or $\text{MX}_m(\text{OOCR}')_{4-m}$, wherein R' is an alkyl, alkenyl, aryl, aralkyl or cycloalkyl group, X is halogen, preferably Cl or Br, and m is from 0 to 4; preferably 0-3; and (ii) an organoaluminum compound as a cocatalyst, wherein the molar ratio of water and transition metal compound is within a range of between about (0.01-3):1; a process for oligomerization of ethylene and a method for preparing the catalyst composition.

(No suitable figure)