

SOLID TITANIUM CATALYST COMPONENT FOR ETHYLENE
POLYMERIZATION, ETHYLENE POLYMERIZATION
CATALYST AND ETHYLENE POLYMERIZATION METHOD

ABSTRACT

Provided are a solid titanium catalyst component for ethylene polymerization which can polymerize ethylene at a high activity and which can provide an ethylene polymer having an excellent particle property, an ethylene polymerization catalyst and an ethylene polymerization method in which the catalyst is used.

The solid titanium catalyst component (I) for ethylene polymerization according to the present invention is obtained by bringing a liquid magnesium compound (A) including a magnesium compound, an electron donor (a) having 1 to 5 carbon atoms and an electron donor (b) having 6 to 30 carbon atoms into contact with a liquid titanium compound (C) under the presence of an electron donor (B) and includes titanium, magnesium and a halogen. The ethylene polymerization catalyst of the present invention includes the component (I) and an organic metal compound catalyst component (II). Further, the ethylene polymerization method of the present invention is a method for polymerizing ethylene under the presence of the catalyst.

(No suitable figure)