

PRODUCTION PROCESS OF OLEFIN POLYMERIZATION CATALYST  
COMPONENT, OF OLEFIN POLYMERIZATION CATALYST, AND OF OLEFIN  
POLYMER

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ABSTRACT

10 A solid catalyst component for olefin polymerization,  
comprising titanium atoms, magnesium atoms, halogen atoms and  
hydrocarbyloxy groups, wherein the following filtrate  
contains titanium atoms in a concentration of 0.08  
mg-Ti/ml-filtrate or lower, measured according to a method  
comprising the steps of (1) preparing a suspension of the solid  
15 catalyst component for olefin polymerization in heptane  
having a concentration of 0.1 g-solid catalyst  
component/ml-suspension, (2) heating the suspension at 70°C  
for 30 minutes under stirring, (3) filtering the suspension,  
thereby obtaining a filtrate, and (4) measuring a  
20 concentration of titanium atoms contained in the filtrate;  
and a production process of the solid catalyst component.