

## ABSTRACT

## TESTING UNIT FOR FLUID CATALYTIC CRACKING CATALYST

Provided is a testing unit for a catalyst for fluid catalytic cracking  
5 of a hydrocarbon oil, by which reaction results extremely similar  
to those obtained by a pilot unit for fluid catalyst cracking or a  
fluid catalytic cracking unit for commercial use (actual unit) are  
obtained and which is applicable to the evaluation of a fluid catalytic  
cracking catalyst and to evaluation and research/development of a  
10 catalyst withdrawn from a commercial fluid catalytic cracking unit.  
The testing unit for a fluid catalytic cracking catalyst is  
characterized by including a reaction vessel (6) in which a catalyst  
fluidization cell (1), a feedstock injection nozzle (2) and a catalyst  
fluidizing gas feed nozzle (3) are provided inside the vessel, said  
15 feedstock and said catalyst-fluidizing gas being fed from the upper  
part of vessel, and a product collection line (5) is provided at the  
lower part of the vessel.

[Fig.1]