

5th International Conference and Expo on

SEPARATION TECHNIQUES

October 23-25, 2017 | Paris, France

The production of the gasoline with high quality with high octane number by the use of the bifunctional catalyst Pt/Re in the catalytic reforming process

Menouar Hanafi

The University of Science and Technology of Oran, Algeria

The original function of the process of platforming is to develop heavy naphtha (HSRN), coming from the atmospheric unit of distillation with a weak octane number ($NO = 44$), to obtain a mixture of fuels a number octane raised by catalytically supporting specific groups of chemical reactions. The installation is divided into two sections: First section hydrocarbon, Second Section Platforming. The refiner coming from the bottom of column 12C2 to feed the section platforming, is divided into two parts whose flows are controlled and mixed with gas rich in hydrogen. Bottom of the column, we obtain stabilized reformat which is aspired by their pump to ensure the heating of the column whereas a part is sent towards storage after being cooled by the air cooler and the condenser. In catalytic catalyst of reforming, there is voluntarily associated a hydrogenating function - dehydrogenating, brought by platinum deposited, with an acid function brought by the alumina support (Al 2 O three). The mechanism of action of this bifunctional catalyst depends on the severity of the operation, of the quality of the load and the type of catalyst. The catalyst used in the catalytic process of reforming is a very elaborate bifunctional catalyst whose performances are constantly improved thanks to the experimental research supported on an increasingly large comprehension of the phenomena. The American company Universel Oil petroleum (UOP), marketed several series of bimetallic catalysts such as R16, R20, R30 and R62 consisted Platinum / Rhenium on an acid support consisted the alumina added with a halogens compound (chlorine).

hanafi951@yahoo.com