

ABSTRACT

5 A selective nickel-based hydrogenation catalyst and the preparation thereof,
characterized in that: provided that the catalyst is weighed 100%, it comprises nickel
oxide 14-20% as active component, lanthanum oxide and/or cerium oxide 2-8%, and
VIB element oxide 1-8% as aids, 2-8% silica, 1-8% alkaline earth metal oxides, and
alumina as the balance. The catalyst specific surface area is 60-150 m²/g, and the pore
volume is 0.4-0.6 ml/g. The catalyst has good hydrogenation performance, especially
impurity and colloid resistance and hydrogenation stability. The catalyst can be applied
10 to the diolefin selective hydrogenation of medium or low-distillate oil, especially of the
full-distillates pyrolysis gasoline.



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