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ABSTRACT

The present invention relates to a catalyst composition suitable for effecting simultaneous hydrodesulphurisation and hydrodemetallisation of sulphur and metals containing feedstocks which shows a high hydrodesulphurisation activity, a high hydrodemetallisation activity, and a long life.

The catalyst according to the invention is characterised in that:

a. it comprises a support, at least 90 wt.% of which consists of alumina, which alumina has an R value of 0.08-30, the R value being defined as the ratio between the integrated intensity of the X-ray diffraction peak at 2 Θ = 32° and the integrated intensity of the X-ray diffraction peak at 2 Θ = 46°,
b. it comprises 2-8 wt.% of Group VIB metal component, calculated as metal,
c. it comprises 0.5-2.5 wt.% of Group VIII metal component, calculated as metal;
d. it has a pore size distribution as determined by nitrogen adsorption satisfying the following requirements:
   (i) a pore volume of 0.5-1.0 ml/g,
   (ii) an average pore diameter of 18-30 nm,
   (iii) of the pore volume of pores with a diameter below 60 nm at least 40% is present in pores within a range of the average pore diameter ± 5 nm.

The invention also relates to a process for use of this catalyst and for its preparation.

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