

Title (en)
CATALYST WITH BIMODAL PORE DISTRIBUTION, ITS PREPARATION PROCESS BY KNEADING OF THE ACTIVE PHASE, AND ITS USE FOR HYDROCARBON RESIDUE HYDROTREATMENT

Title (de)
KATALYSATOR MIT BIMODALERPORENVERTEILUNG, DESSEN HERSTELLUNGSVERFAHREN MITTELS KNETTENS DER AKTIVEN PHASE UND VERWENDUNG ZUR WASSERSTOFFBEHANDLUNG VON ÖLRÜCKSTÄNDEN

Title (fr)
CATALYSEUR A POROSITE BIMODAL, SON PROCEDE DE PREPARATION PAR COMALAXAGE DE LA PHASE ACTIVE ET SON UTILISATION EN HYDROTRAITEMENT DE RESIDUS D'HYDROCARBURES

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Abstract (en)
[origin: WO2015189196A1] The invention concerns a hydroconversion catalyst with a bimodal porous structure comprising: a predominantly calcined aluminium oxide matrix; a hydro-dehydrogenating active phase comprising at least one metal from group VIII of the periodic table, optionally at least one metal from group VIB of the periodic table, optionally phosphorus, said active phase being at least partially comulled in said predominantly calcined aluminium oxide matrix, said catalyst having a specific surface area SBET greater than 100 m²/g, a mesoporous volume median diameter between 12 and 25 nm, terminals included, a macroporous volume median diameter of between 250 and 1500 nm, terminals included, a mesoporous volume as measured by mercury intrusion porosimetry, greater than or equal to 0.55 ml/g and a total porous volume measured by mercury porosimetry greater than or equal to 0.70 ml/g. The invention also concerns a method for preparing a catalyst suitable for the hydroconversion/hydrotreatment of residuum by comulling the active phase with a specific alumina. The invention finally concerns the use of the catalyst in hydrotreatment methods, in particular the hydrotreatment of heavy feedstocks.

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