

Title (en)

CATALYST SUPPORT MADE OF ACTIVATED CARBON FIBRES WITH CATALYST, PROCESS FOR ITS PREPARATION AND USE

Title (de)

KATALYSATORTRÄGER AUS AKTIVKOHLEFASERN MIT KATALYSATOR, VERFAHREN ZU SEINER HERSTELLUNG UND VERWENDUNG

Title (fr)

SUPPORT DE CATALYSEUR EN FIBRES DE CARBONE ACTIVE AVEC CATALYSEUR, SON PROCEDE DE PREPARATION ET SON UTILISATION

Publication

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Application

EP 98955728 A 19981124

Priority

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- FR 9714704 A 19971124

Abstract (en)

[origin: FR2771309A1] Supported catalysts comprising a metal catalyst on an activated carbon fibre support are new. Also claimed is a process for producing a supported catalyst, comprising producing an activated carbon fibre support, coating the support with a catalyst, and shaping the catalyst-coated support. The support is produced from a cellulosic fibre (especially rayon) cloth by (a) carbonising the fibres at 1000-1300 deg C for 0.7-1.3 minutes and activating the product by heat treatment at 850-950 deg C in a CO₂ atmosphere or (b) simultaneously carbonising and activating the fibres by impregnation with H₃PO₄, ZnCl₂, K₂SO₄, KOH, (NH₄)₂HPO₄ or NH₄Cl and heat treatment at 350-500 deg C. The support can be provided with a coating that inhibits surface oxidation of the activated carbon fibres, especially a silicon carbide coating formed by reacting Si and/or a Si compound with the carbon of the fibres. The support is coated with the catalyst by ion exchange or liquid impregnation. The metal catalyst is Ru and is present in an amount of at least 0.5 wt.%.

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IPC 8 full level

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