

Title (en)

Process for the preparation of base oils and middle distillates stabilized against oxydation and low temperatures.

Title (de)

Verfahren zur Herstellung von oxidationsstabilen und kältestabilen Grundölen und Mitteldestillaten.

Title (fr)

Procédé de préparation d'huiles de base et de distillats moyens résistant à l'oxydation et aux basses températures.

Publication

EP 0441195 B1 19940316 (DE)

Application

EP 91100942 A 19910125

Priority

DE 4003175 A 19900203

Abstract (en)

[origin: EP0441195A1] In a process for the preparation of oxidation-stable and cold-stable base oils and middle distillates from mineral oil fractions having a boiling range above 350 DEG C, the mineral oil fraction is converted in a first stage over a hydrocracking catalyst under hydrocracking conditions to the extent of 20 to 80 % by weight into fractions boiling below 360 DEG C, the discharged reactor product is, if appropriate, separated in a high-pressure separator into a liquid phase and gas phase, the total discharged reactor product or only the liquid phase is treated, directly or after distilling off the fractions boiling below 360 DEG C, in a second stage with hydrogen in the presence of a catalyst at 200 to 450 DEG C and 20 to 150 bar, the catalyst containing a crystalline borosilicate zeolite of the pentasil type, alumina and/or amorphous aluminosilicate as support material and one or more metals from group VIb and/or group VIII of the periodic table and phosphorus, and, after distillation of the hydrogenated product, a middle distillate in the boiling range from 180 to 360 DEG C having a pour point below -30 DEG C and an oxidation-stable residue having a boiling point >360 DEG C, a viscosity index between 110 and 135 and a pour point below -12 DEG C are obtained.

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