



PROCESS FOR DESULFURIZING CATALYTICALLY CRACKED GASOLINE

ABSTRACT

A process for desulfurizing catalytically cracked gasoline containing sulfur compounds and olefin components, which comprises the steps of:

first desulfurizing the catalytically cracked gasoline in the presence of a hydrodesulfurization catalyst at a desulfurization rate of 60 to 90%, a reaction temperature of 200 to 350°C, a hydrogen partial pressure of 5 to 30 kg/cm², a hydrogen/oil ratio of 500 to 3,000 scf/bbl, and a liquid hourly space velocity of 2 to 10 1/hr, said first desulfurizing step comprising supplying a feed having a hydrogen sulfide vapor concentration of not more than 0.1% by volume, and

next desulfurizing the treated oil obtained in the first step in the presence of a hydrodesulfurization catalyst at a desulfurization rate of 60 to 90%, a reaction temperature of 200 to 300°C, a hydrogen partial pressure of 5 to 15 kg/cm², a hydrogen/oil ratio of 1,000 to 3,000 scf/bbl, and a liquid hourly space velocity of 2 to 10 1/hr.

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