

Abstract

An adsorbent product for the adsorption of trace elements of sulfur, arsenic, mercury, compounds which contain these elements or metal hydrides from a hydrocarbon gas stream, preferably an olefinic or paraffinic stream, wherein the adsorbent product is iron oxide and manganese oxide placed on a support material, preferably aluminum oxide. Also disclosed is a process for the use of this adsorbent product for the removal of trace elements of arsenic, mercury and sulfur or compounds containing those elements or metal hydrides from a hydrocarbon gas stream, preferably an olefinic or paraffinic gas stream.

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