

ABSTRACT

A process for steam conversion of a hydrocarbon feedstock in the presence of a catalyst includes the steps of (a) providing a catalytic emulsion comprising a water in oil emulsion containing a first alkali metal and a second metal selected from the group consisting of Group VIII non-noble metals, alkaline earth metals and mixtures thereof; (b) mixing the catalytic emulsion with a hydrocarbon feedstock to provide a reaction mixture; and (c) subjecting the reaction mixture to steam conversion conditions so as to provide an upgraded hydrocarbon product. A catalytic emulsion and process for preparing same are also provided.

