

Article

On the Application of an In Situ Catalyst Characterization System (ICCS) and a Mass Spectrometer Detector as Powerful Techniques for the Characterization of Catalysts

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Abstract: The in situ characterization of catalysts provides important information on the catalyst and the understanding of its catalytic performance and selectivity for a specific reaction. Temperature programmed analyses (TPX) techniques for catalyst characterization reveal the role of the support on the stabilization and dispersion of the active sites. However, these can be altered at high temperatures since sintering of active species can occur as well as possible carbon deposition which hinders the active species and deactivates the catalyst. The in situ characterization of the spent catalyst, however, may expose the causes of catalyst deactivation. For example, a simple temperature programmed oxidation (TPO) analysis on the spent catalyst may produce CO and CO₂ via a reaction with O₂ at high temperatures and this is a strong indication that deactivation may be due to the deposition of carbon. Other TPX techniques such as temperature programmed reduction (TPR) and pulse chemisorption are also valuable techniques when they are applied in situ to the fresh catalyst and then to the catalyst upon deactivation. In this work, two Ni supported catalysts were considered as examples to elucidate the importance of these techniques in the characterization study of catalysts applied to the reaction of hydrogenation of CO₂.

Keywords: chemisorption; deactivation; dispersion; in situ characterization; metal supported catalyst; TPX



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1. Introduction

Characterization of the catalysts before the reaction and especially in situ characterization is of extreme importance in heterogeneous catalysis [1–4]. Detailed knowledge of the catalyst's behavior under the same conditions of reaction and with the correct adjustments to the reaction conditions as a way to elongate the catalyst's active lifetime can be obtained from in situ characterization. Sintering of active species as well as carbon deposition are the main causes of catalytic deactivation [5–7] and they are good examples of where this type of characterization would be necessary to obtain more information about the catalytic process. Hence, in situ characterization before and after reaction is the key procedure for carrying out a successful catalytic process. In previous work, we presented the need to characterize the catalysts used in the Fischer–Tropsch reaction under the same reaction conditions [8]. In the current work, a system is applied that allows these characterizations to be carried out without having to remove the catalyst from the reactor and expose it to the environmental conditions of the laboratory, and especially saving time having to remove the catalyst from the reactor and take it to another device for characterization.

The In Situ Catalyst Characterization System (ICCS) developed by Micromeritics [9] is a new instrument that complements any dynamic laboratory reactor system by bringing new capabilities to catalyst researchers. It adds two key characterization techniques to the functionality of an existing reaction system—Temperature Programmed Analyses

Characterization Of Catalysts

Camilla Rothe



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