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Abstract

This report describes research conducted to support the DOE program in indirect coal liquefaction. Specifically, we have studied the attrition behavior of iron Fischer-Tropsch catalysts, their interaction with the silica binder and the evolution of iron phases in a synthesis gas conversion process. The results provide signficant insight into factors that should be considered in the design of catalysts for converting coal based syn-gas into liquid fuels.

Table of Contents	page
Executive Summary	2
Technical Objectives	2
Technical Progress	
Task 1: Catalyst Particulate Synthesis	3
Task 2: Catalyst Binder Interaction	7
Task 3: Catalyst Characterization	9
Figures 1-28	13