Kinetics of Short Contact Time Coal Liquefaction

Part I: Effect of Operating Variables

The liqueduction binetics of Powhatan No. 5 salar coal (Fittsburgh Sears) in the presence of SEC-B recycle solvent at short contact times (<10 min) and temperature and present recepts of 572–723 K and 10.3–13.8 MPa is examined in a well-related reactor. In the initial stages of liqueduction, while overall coal convention (telephydrothum solubles) an increase with temperature, off (pertage solubles) is lest with an increase in temperature. An increase in solvent-become ratio results in an increase of convention. The initial coal particle size distribution, total pressure, and nature of gas phase (nitrogen, or by-drogen) have no significant offect on the production of any of the product of liqueduction for contact times up to 10 min. A hunged bitter model is presented to describe the product distribution.

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SCOPE

The primary reactives in conversion of coal to Equid hole in any coal-oil shary Equal actions process are pyrotytic in nature and acquire high temperature to overnome the distribution of activation ourcraits insolved in the repture oil band highers in the continuous insolved in the repture oil band highers in the coalcated with a hydrogen-donor solvent, at elevated temperature (693–783 h), much of the coal convension to soluble products takes place in the initial 2–5 min. Hence, the perfector in the coal lique faction process is a critical component, as it behaves us a short constact time reserve. Recombly, there has been a moniderable interest in the development of a short contact

time two-stage process. This paper prescuts a short coalset limb (< 60 and a) each liqued action kinetic study which is exerted out in a well-mixed, I-L semilastch autoclave cractor. The experimental data are obtained for Powhatan I-m. 5 mior coul at various practical ranges of temperatures, pressures, solvent-to-each ratio, and initial coal particle size. Both aircopes and by-drogen was used as the gas phase. The this are correlated by a lumped kinetic model which would be excluding predicting the performances of a prehenter or a short contact time coal liquelaction reactor.

CONCLUSIONS AND SIGNIFICANCE

The kineties of coal liquetaction at about residence times (under 10 min) has been shadied. The products of liquefaction were characterized as:

> Presupholtenes | Soluble in Tetrahydeoforus |Losoluble in Tolucus | Asphaltenes | Soluble in Tolucus | Insoluble in Pratame | Oth Solubles in Feature

It is shown that initially there is an effective loss of all, whereas the preaspholiumes and aspholiumes are rapidly formed indicating a first dissolution of coal in the initial stages. A statistical analysis of the experiments shows that the temperature has a significant possible influence on all conceptration with a

enimismum at around 2-4 min of reaction time. This result indicates the recurrence of an addretive reaction between cost and oil leading to some intermediate products which in ture court in give sile. The production of toluene and tetrahydochurun reliables is shown to be positively influenced by tongweature. The solvent-to-coal ratio also significantly influences the product distribution.

An investigation of the influence of gas phase in iterates and bydrogens, particles size, and total pressure, it short-time liqindication show an statistically semilificant effect in the range of variables studied. From a kintelle standpoint, it appears that there is no need to add hydrogen to the light stage of the short contact these two-stage precesses or the proferator of other pancesses; however, hydrogen may be needed to prevent cake formation. A kinetic model is developed to predict the product distribution over the entire range of operating variables studied. This model should be useful to predicting the product distributions coming out of a probester or a short contact time coulliquefaction measter.

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RJ Alexander

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