Cleaning of Indian coals by agglomeration with xylene and hexane

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Received 19 July 1999; revised 10 April 2000; accepted 10 April 2000. Available online 18 August 2000.

Abstract

A laboratory scale agglomeration process has been undertaken for cleaning Indian coals using oils namely, xylene and hexane. Maximum organic matter recovery for xylene has been found to be 91.9% whereas with hexane, the value is 54.7% on a dry basis. The highest ash rejection values with xylene (90.7%) and with hexane (89.7%) are almost same. Promising results for rejection of metals (Fe, Mg and Zn) have been observed. It has been found that xylene is more selective than hexane for the agglomeration process. Knowledge gained from this study will be helpful for technological advancement of this kind of work.

Author Keywords: Coal cleaning; Xylene; Hexane; Agglomeration
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Separation and Purification Technology
Volume 20, Issues 2-3, 15 September 2000, Pages 235-241