

A study on the Separation of Sulfone Components in Light Cycle Oil by Solvent Extraction and Adsorption

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The separation of sulfone components in light cycle oil was carried out by solvent extraction method using various polar solvents and by adsorption method using various adsorbents. It was found that phase separation between LCO layer and solvent was occurred under mixed solvent adding proper amount of water. The mixture solvent of NMP and water was a promising extraction solvent due to the selective removal and high distribution coefficient of sulfone component in LCO. The best method for separation of sulfone components in LCO is adsorption by gamma-alumina(strem chemical) after 3 stages extraction using the mixture solvent of NMP.