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A Study of Residual Oils Recovered from Spent Bleaching ...

Various alcohols and hydrocarbons were used as solvents to extract the residual oil in spent bleaching clay from palm oil refining. The content of oil and minor components in the spent clay was >40% by weight.

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In refining palm oil, bleaching earth is used to remove colour, phospholipids, oxidized products, metals and residual gums from the oil. It also absorbs approximately 0.5% by weight of the oil in the process. Figure 1. Residual oil from SBE (WAC and NC). fatty acids and peroxide value, and would not be suitable for food application.

RESIDUAL OIL FROM SPENT BLEACHING EARTH (SBE) FOR ...

At the end of the process, the oil/bleaching earth mix is filtered to separate the treated oil from the waste clay, which then forms spent bleaching earth (SBE). SBE typically contains 20–40% (w/w) of residual vegetable oil and pigments, oxidation products, free fatty acids (FFA), phosphatides and trace metals (Pollard et al., 1991a , Pollard et al., 1991b , Pollard et al., 1993).

Reuse of spent bleaching earth by polymerisation of ...

This work was to study technical and economic feasibilities of converting residual oils recovered from spent bleaching earth generated at soybean oil refineries into useable biodiesel. Experimental results showed that fatty acids in the SBE residual oil were hexadecenoic acid (58.19%), stearic acid (21.49%) and oleic acid (20.32%), which were similar to those of vegetable oils.

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Abstract: Residual oil from oil palm refining waste, spent bleaching clay (SBC) was recovered through a pilot plant scale up solvent extraction process. To develop a green extraction and sustainable approach for recovery of oil, bio-ethanol was used as a solvent instead of hexane.

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List of feedstocks including wastes and residues: year ...

Spent bleaching earth (SBE) derived from the degumming and bleaching of crude palm oil (CPO) from physically refined palm oil is commonly disposed off at landfills at a high cost. Its disposal has so far led to environmental degradation but has not been addressed.

Enhancement of palm oil refinery waste – Spent bleaching ...

Oil moisture content Oil moisture typically ranges from ≤ 0.05 weight % in vacuum dried oil to ~ 0.35 weight % in oil coming directly from a water washing centrifuge into the bleaching process. Optimizing the moisture content will improve chlorophyll and phosphorus removal (see Fig. 11-13).

Optimization of Bleaching Process - American Oil Chemists ...

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In Situ Biodiesel Production from Residual Oil Recovered ...

In refining, bleaching earth is used to remove color, metal, phosphatides, oxidized products and residual gums from the oil; however, in turn, it absorbs approximately 20-40 % by weight of the Spent Bleaching Earth. 4. How much oil can be recovered during the Solvent Extraction process?

FAQ FOR SPENT BLEACHING EARTH OIL EXTRACTION

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