

Accepted Manuscript

Title: Purification of crude wax using a filter medium modified with a nanofiber coating

Authors: Juliano Missau, Juliana De De Gregori, Guilherme Luiz Dotto, Daniel Assumpção Bertuol, Luciano Peske Ceron, Eduardo Hiromitsu Tanabe



PII: S0263-8762(18)30326-5
DOI: <https://doi.org/10.1016/j.cherd.2018.06.031>
Reference: CHERD 3241

To appear in:

Received date: 11-7-2017
Revised date: 14-5-2018
Accepted date: 21-6-2018

Please cite this article as: Missau, Juliano, De Gregori, Juliana De, Dotto, Guilherme Luiz, Bertuol, Daniel Assumpção, Ceron, Luciano Peske, Tanabe, Eduardo Hiromitsu, Purification of crude wax using a filter medium modified with a nanofiber coating. *Chemical Engineering Research and Design* <https://doi.org/10.1016/j.cherd.2018.06.031>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Purification of crude wax using a filter medium modified with a nanofiber coating

Juliano Missau^a, Juliana De Gregori^a, Guilherme Luiz Dotto^a, Daniel Assumpção Bertuol^a, Luciano Peske Ceron^b, Eduardo Hiromitsu Tanabe^{a,*}

^a Environmental Processes Laboratory (LAPAM), Chemical Engineering Department, Federal University of Santa Maria – UFSM, Avenida Roraima 1000, 97105-900 Santa Maria, RS, Brazil

^b Pontifícia Universidade Católica do Rio Grande do Sul – PUCRS, Engineering College, Chemical Engineering Department, Av. Ipiranga, 6681 Partenon, 90619-900 Porto Alegre, RS, Brazil

* Corresponding author at: UFSM, Avenida Roraima 1000, 97105-900, Santa Maria, RS, Brazil

E-mail address: edutanabe@yahoo.com.br (E.H. TANABE)

HIGHLIGHTS

- A nanofiber-coating treatment for filter media was developed for purification of crude wax.
- Greater uniformity of the nanofibers ensured better filter medium coverage.
- Coated, singed, and untreated filter media were compared in terms of efficiency.

Download English Version:

<https://daneshyari.com/en/article/7005663>

Download Persian Version:

<https://daneshyari.com/article/7005663>

[Daneshyari.com](https://daneshyari.com)