«International Conference on Advances in Material Science and Technology - CAMSTech-2020»

«Utilization of the vat residues of butyl alcohols with receiving phthalate softener»

R F Nafikova, A A Islamutdinova, I VOvsyannikova
Problem statement

• Problems of utilization of the vat residues of butyl alcohols
Solution methods

- One of the most perspective directions of utilization of VRBA is their use as raw materials when receiving the chemicals-additives applied when processing polymers.

- Results of a research of reaction of etherification of phthalic anhydride with VRBA with use as the catalyst of tetrabutyloxytitanate (TBOT) and stearate of zinc are given in this work.
• The catalytic effect of stearate of zinc, apparently, is connected with coordination of an ion of metal with oxygen of a carboxylate part of an acid that leads to an increase in an electrophilicity of atom of carbon of carboxyl group, facilitating thereby etherification process.
Conclusions

Results, implementation

- When using as the softener received on the basis of VRBA films of the lower layer of linoleum and the film PVC sticky completely conform to imposed technical requirements.

- Some decrease in indicators "heat stability" and "fusion fluidity" is revealed that should be meant at their practical use.
Contacts

R R Daminev

Ufa State Petroleum Technological University, Kosmonavtov str., 1, Ufa, 450062, Republic of Bashkortostan, Russia

naficova.rf@soda.ru