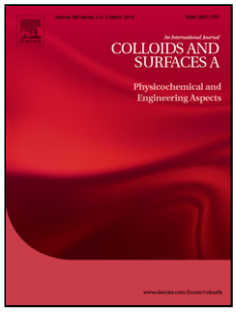

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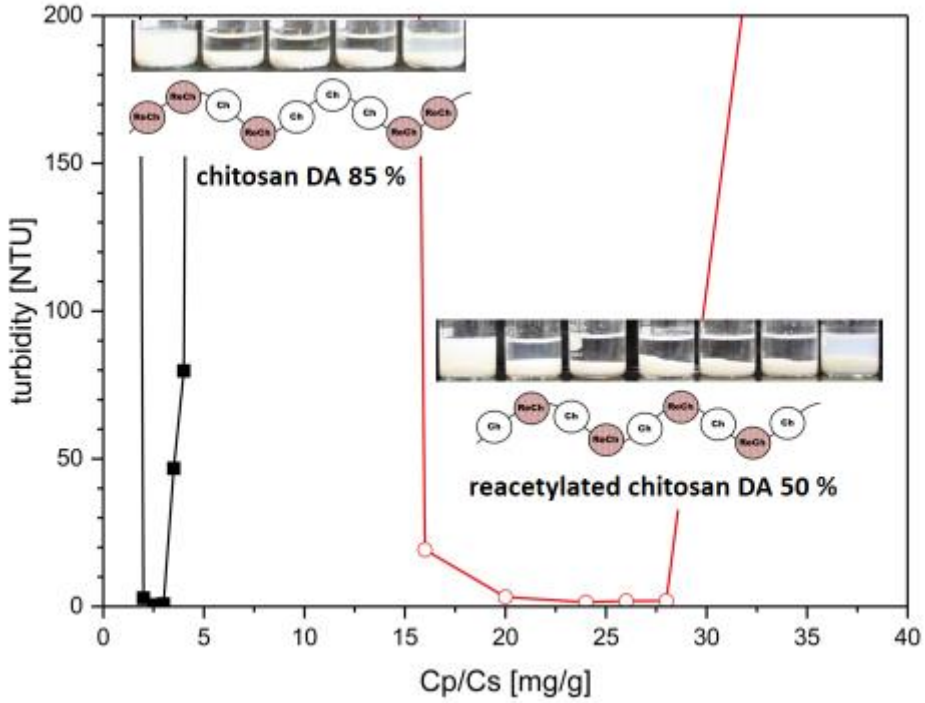
Flocculation efficiency of reacetylated water soluble chitosan versus commercial chitosan

Authors
Sandra Haufe[1], Jörg Bohrisch[2], Dana Schwarz[3], Svetlana Yu. Bratskaya[4], Christine Steinbach[1]
Simona Schwarz[1]*

[1]Leibniz-Institut für Polymerforschung IPF Dresden e.V., Hohe Str. 6, 01069 Dresden, Deutschland
[2]Fraunhofer-Institut für Angewandte Polymerforschung IAP, FhG
[3]Charles University in Prague, Faculty of Science, Department of Organic Chemistry, Hlavova 2030/8, 128 43 Prague 2, Czech Republich
[4]Institute of Chemistry, Far East Branch of Russian Academy of Sciences, 159, Prosp. 100-letiya Vladivostoka, Vladivostok 690022, Russia

Graphical abstract



Highlights

Chitosan reacetylated is water soluble,
the flocculation results show big floc sizes and a broad flocculation range
chitosan is soluble until pH 6,7 but it is a flocculant even in basic pH ranges until pH 10

Abstract

In this work, the flocculation efficiency of reacetylated chitosan were compared with those of commercially available chitosan. The flocculation properties were investigated in dispersion of clay by means of turbidity measurements, colloid titration and measurements of the floc size. Reacetylated chitosan dissolves in deionized water without any additives and exhibits good flocculation properties like a wider flocculation window but a higher amount of