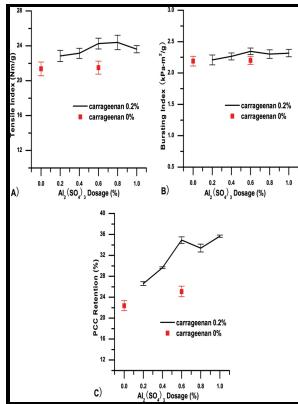


Retention of fillers by papermaking fibers

Institute of Paper Chemistry - [PDF] MODIFICATION OF PAPERMAKING GRADE FILLERS: A BRIEF REVIEW



Description: -

-Retention of fillers by papermaking fibers

Institute of Paper Chemistry bibliographic series -- no. 186 Retention of fillers by papermaking fibers

Notes: Supplement to work of the same title by Lillian Roth, Glen SAeger and Jack Weiner (2nd ed., 1959).

This edition was published in 1965



Filesize: 11.25 MB

Tags: #Substituting #pulp #for #filler #is #increasingly #attractive #for #papermakers

Review: Filler and Fines Retention in Papermaking :: BioResources

However, in theory volumetric concentration is more important.

MODIFICATION OF PAPERMAKING GRADE FILLERS: A BRIEF REVIEW

Talc, gypsum, aluminum trihydrate, and synthetic silicates and silica products also have various applications as fillers, depending on the grade of paper being made, and also the regional availability of different mineral products. At a molecular scale, suspensions of cellulosic materials and fine particles are affected by short-range electrostatic, dispersion, and polymer bridging forces acting between surfaces.

papermaking, fibre flocculation, fine element, retentio

Important characteristics of paper filler Particle size, particle shape, specific surface area, light absorption properties, particle charge, refractive index and abrasion are more important characteristics of filler materials.

Fillers for papermaking: A review of their properties, usage practices, and their mechanistic role :: BioResources

The use of bulky fibers, such as BCTMP is common practice. Some clay is subjected to a milling process with fine ceramic media; this process, known as delamination, results in further division of the clay into yet thinner platelets, having aspect ratios in the range of 10 to 30. Hence some retention aids have to be used, as a result increased paper production cost.

Paper Chemicals

Nonuniformity of paper within a length scale of 2-20 mm is most frequently associated with a tendency of fibers to form flocs. However, modern technologies of papermaking involve an alkaline process.

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