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Retention of Fillers by Papermaking Fibers, Supplement Apr 22 2022

Handbook of Pulping and Papermaking Feb 06 2021 In its Second Edition, Handbook of Pulping and Papermaking is a comprehensive reference for industry and academia. The book offers a concise yet thorough introduction to the process of papermaking from the production of wood chips to the final testing and use of the paper product. The author has updated the extensive bibliography, providing the reader with easy access to the pulp and paper literature. The book emphasizes principles and concepts behind papermaking, detailing both the physical and chemical processes. A comprehensive introduction to the physical and chemical processes in pulping and papermaking Contains an extensive annotated bibliography Includes 12 pages of color plates

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The interdependency between filler retention and paper formation is well-known, where a high retention is accompanied by impaired formation. A challenge for today's papermakers is to increase the

competitiveness for uncoated and coated fine paper, by improving the formation at the same level of retention. Over the years, the use and the demands of retention aids have increased as a consequence of a higher system closure, increased machine speeds and increased filler content. The knowledge of whether some retention aid systems are more or less detrimental to paper formation than other systems, is very limited. The insufficiency of knowledge is, however, also true for other chemical, mechanical and interacting factors, which influence the retention/formation relationship in a complex manner. In order to investigate the retention/formation relationship (features, retention aids, dosage points, etc.), a pilot-scale fourdrinier former (R/F-machine) has been developed. The R/F-machine provides a short circulation of the white water and controlled experimental conditions and is appropriate for cost-effective investigations. Moreover, the R/F-machine has been designed to have a short residence time to chemical equilibrium and the machine has also shown high reproducibility in the results. This licentiate thesis presents the R/F-machine and examines, during constant experimental conditions, the retention/formation relationships for some different retention aid systems. Three single-component cationic polyacrylamides with varying molecular weights and two polyacrylamide-based microparticulate systems with varying microparticles were examined. The retention aid systems were investigated on the R/F-machine, for a fine paper stock (90 % bleached hardwood and 10 % bleached softwood) with addition of 25 % filler (based on total solids content). The results showed that the retention/formation relationship was not dependent on the retention aid system used. All systems showed the same relationship between retention and formation. On the other hand, the various retention aid systems provided different effects considering their retention performance.

## Retention Aids in Fine Papers : Questionnaire Summary Nov 29 2022

The local distribution of fillers in the z-direction of paper Feb 27 2020 Inhaltsangabe:Introduction: It is important to determine the distribution fillers in thickness direction of paper. However, the techniques that are available are limited in precision and accuracy. This thesis describes a new method for the determination of fillers in the z-direction of paper. The method is based on a splitting technique that offers a good reproducibility and provides good layer uniformity. The new method is used to estimate the effects of different factors of influences affecting the fillers distribution. During sheet forming a large amount of water is removed. This dewatering process creates an irregular distribution of fillers across the thickness of the paper. Therefore, the description of the distribution of fillers in the thickness direction is critical to optimize paper properties. The techniques currently available for this kind of characterization have limitations in terms of repeatability, resolution or precision. Another limitation to currently available techniques is the lack of a good sampling area. Considering the large effect of fillers on many paper properties, the ability to measure and thus control the filler distribution in the z-direction helps to control sheet structure, reduce two-sidedness and improve paper properties such as internal bond. Inhaltsverzeichnis:Table of Contents: Acknowledgements2 Abstract3 Index of contents4 1.Introduction6 1.1Paper structure7 1.1.1Three dimensional network8 1.1.2Formation11 1.2Fillers12 1.2.1Effects of filler loading on the properties of paper12 1.2.2The main fillers:14 1.3Retention and dewatering16 1.3.1First-pass retention and true retention17 1.3.2Agglomeration and flocculation20 1.3.3Retention fundamentals:23 1.3.4Filler distribution24 1.4Measuring filler content and distribution25 2.Materials and

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Chemistry of Modern Papermaking Sep 27 2022 Chemistry of Modern Papermaking presents a chemist's perspective on the papermaking process. With roughly 3% of the mass of a paper product invested in water-soluble chemicals, paper makers can adjust the speed and efficiency of the process, minimize and reuse surplus materials, and differentiate a paper product as required by specific customers. W

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Proceedings, Midwest Regional Conference Nov 05 2020

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Retention of Fine Solids During Paper Manufacture Oct 29 2022

Paper Chemistry Jul 02 2020 Although the title of this book is Paper Chemistry, it should be considered as a text about the chemistry of the formation of paper from aqueous suspensions of fibre and other additives, rather than as a book about the chemistry of the raw material itself. It is the subject of what papermakers call wet-end chemistry. There are many other excellent texts on the chemistry of cellulose and apart from one chapter on the accessibility of cellulose, the subject is not addressed here. Neither does the book deal with the chemistry of pulp preparation (from wood, from other plant sources or from recycled fibres), for there are also many excellent texts on this subject. The first edition of this book was a great success and soon became established as one of the Bibles of the industry. Its achievement then was to collect the considerable advances in understanding which had been made in the chemistry of papermaking in previous years, and provide, for the first time, a sound physico chemical basis of the subject. This new edition has been thoroughly updated with much new material added. The formation of paper is a continuous filtration process in which cellulosic fibres are formed into a network which is then pressed and dried. The important chemistry involved in this process is firstly the retention of colloidal material during filtration and secondly the modification of fibre and sheet properties so as to widen the scope for the use of paper and board products.

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