

Pulping and bleaching OCC. Part II. Oxygen delignification and bleaching

DARIUSZ DANIELEWICZ¹, BARBARA SURMA-ŚLUSARSKA²

SUMMARY

The course of oxygen delignification of pulps obtained from two kinds of OCC waste paper was studied. The susceptibility of these pulps to ECF and TCF bleaching processes was also compared with that of birch and pine kraft pulp. The final yield and the intrinsic viscosity of bleached pulps produced from OCC waste paper were determined and compared with the properties of pulps produced from birch and pine.

The results showed that the susceptibility of OCC pulps produced from unprinted OCC to oxygen delignification and bleaching is good. The most important problem related to processing OCC into bleached pulps seems to be the cleaning of these pulps of coloured particles that give the pulps a grey colour. The study showed that the place (stage), as well as the method of removing these particles from OCC pulps may have a significant influence on the effectiveness of this process and the final yield of bleached OCC pulps.

KEYWORDS

OCC pulps, oxygen delignification, bleaching, yield, viscosity

INTRODUCTION

Bleached kraft pulps obtained from wood are mainly used in the production of white paper, such as, for example, copy paper. Alternative sources of fibre, ideally more ecologically justifiable than wood are increasingly sought after. In this respect, waste paper from old corrugated containers has a certain potential, but as discussed in Part I of this work (*1*) the use of this material to produce bleachable pulps is not straightforward. There are several difficulties arising from the increased

recycling rate in corrugated board manufacture. Not the least of these difficulties arise from the presence of various chemical additives in OCC waste paper, such as waxes, polymers, glues, binders and fillers which are used, in increasing amounts as recycling rates themselves increase, to give the boards their required end properties. In Part I of this work (*1*) a literature review is presented covering much of the previous work in pulping and bleaching of OCC and the delignification of two kinds of OCC, considered as potential source for bleached fibre production, was studied using kraft pulping and oxygen delignification processes. The results showed that disintegrated OCC is well delignified with kraft liquor to a kappa number of 30. It is very difficult, however, to delignify such pulps to a kappa number of 15 in the process of single oxygen delignification, although such a possibility might have been expected due to the lower lignin content compared to wood. Thus, the results ultimately showed that in the case of OCC waste paper the delignification process must include two stages, i.e. kraft pulping and oxygen delignification.

This paper presents the results of the oxygen delignification and bleaching of two different OCC pulps. These pulps were made from two unprinted OCC boards with different contents of lignin, a factor that has not been taken into account to date, and which may be important for establishing a theoretical basis for the problem studied and in determining the best conditions and parameters for processing of this kind of raw material into a bleached pulp.

EXPERIMENTAL

Materials

Pulps produced by kraft pulping of OCC waste paper were used in this study. "OCC50" kraft pulp (with a kappa number of 52.6 after disintegration) was produced from unprinted corrugated three-ply board, while "OCC100" pulp (with a kappa number of 103 after disintegration) was obtained from unprinted corrugated

five-ply board. Unbleached kraft birch (B) and pine (P) pulps were also used for comparison purposes.

Pulping process

OCC boards were disintegrated before pulping in a laboratory disintegrator. Birch and pine chips were prepared by sorting by hand to remove knots and bark and then by screening, with the fractions that passed through 18, 15 and 13 mm ϕ openings of a laboratory sorting machine being pulped. Pulping was carried out in a Hato laboratory digester in 2.5-L autoclaves. The active alkali charges for OCC50, OCC100, birch and pine were 8.5, 14, 18 and 22% on o.d. basis, respectively. For kraft pulping experiments the sulphidity of the liquor was 25%, and the liquor-to-solid ratio was 6:1 (OCC pulps) and 4:1 (wood chips). In all cooking experiments, the temperature was raised to 165°C over 90 min and held at 165°C for a further 90 min. After cooking, the OCC pulps and wood chips were washed with deionised water at first on the wire net and then by diffusion for 24 h, after which they were disintegrated.

Oxygen delignification (OD stage)

A Parr reactor 5112 was used for oxygen delignification. The reactor was equipped with a central shaft and impellers for effective mixing at medium consistencies. In all experiments, the amount of pulp used in the oxygen delignification stage (oven-dry basis) was 40 g. The experiments were carried out at a consistency of 8%, oxygen pressure of 0.6 MPa, and at 100°C. At the beginning of each experiment, a 0.1% charge (on o.d. basis) of MgSO_4 (dissolved in 300 ml of water) was mixed with the pulp and then the NaOH charge (on o.d. basis) was added with the rest of the water. The total charge was mixed, placed in the reactor and oxygen pressure was applied. After 60 minutes of delignification, the pressure was released, the reactor opened, and the pulp was discharged, filtered, washed with four aliquots of 1000 ml deionised water, and stored in a plastic bag for further treatment.

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Table of Contents Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La

1. Understanding the eBook Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
 - The Rise of Digital Reading Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
 - Advantages of eBooks Over Traditional Books
2. Identifying Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
 - User-Friendly Interface
4. Exploring eBook Recommendations from Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
 - Personalized Recommendations
 - Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La User Reviews and Ratings

- Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La and Bestseller Lists
- 5. Accessing Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La Free and Paid eBooks
 - Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La Public Domain eBooks
 - Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La eBook Subscription Services
 - Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La Budget-Friendly Options
- 6. Navigating Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La eBook Formats
 - ePub, PDF, MOBI, and More
 - Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La Compatibility with Devices
 - Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
 - Highlighting and Note-Taking Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
 - Interactive Elements Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
- 8. Staying Engaged with Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
- 9. Balancing eBooks and Physical Books Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
 - Setting Reading Goals Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
 - Fact-Checking eBook Content of Oxygen Ozone Peroxide Pulping Bleaching Seminar Nov 9 New Orleans La
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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