

Chemical Additives for the Production of Pulp & Paper

Functionally Essential – Ecologically Beneficial

Table of Contents

1. Preface Page x
S. Kleemann
- 2.1 List of Authors
2.2 Members / former Members of ZELLCHEMING Committee “Chemical Additives”
3. Introduction
S. Kleemann, K. Goebel
4. Why Chemical Additives
R. Thummer, J. Belle
5. Systematic Approach
A.N. Geller, J. Belle, B. Götz
6. **Part I**
Presented at 26th EUCEPA Conference together with ZELLCHEMING Annual Meeting at Baden-Baden, June 23-26, 1997 and at TAPPI Papermakers Conference at Atlanta, USA, March 1st -05th, 1999.
Published in “DAS PAPIER”, Special Issue 6A, 1997, page V91-V127
- 6.1 Retention Aids and Stock Deaerators in the Production of Mechanical Printing Papers
W.J. Auhorn
- 6.2 Biocides in the Production of Packaging Papers
S. Kleemann
- 6.3 Sizing Agents in Fine Papers
W.-S. Schultz
- 6.4 Optical Brighteners in Fine Papers
Th. Roick, M. Köcher
- 6.5 Wet-Strength Resins in Hygienic Paper Production
U. Hamm
- 6.6 Synthetic Binders for Coated Papers
A. Gürtler, T. Gliese
7. **Part II**
Presented at ZELLCHEMING Annual Meeting at Wiesbaden, June 16-19, 2003.
Published in ” ipw / DAS PAPIER”, Issue 9/2003, page 31-46, Issue 10/2003, page 27-44 and Issue 11/2003, page 25-46
- 7.1 Aluminium Compounds in the Production of Mechanical Printing Papers
U. Künzel, P.-C. Le

7.2 Alkenyl Succinic Anhydride (ASA) as Sizing Agent

T. Gliese

7.3 Polyacrylamides (PAM) as Retention Aids

R. Pelzer

7.4 Basic Dyes in the Production of Packaging Papers

W.J. Auhorn

7.5 Direct Dyes in the Production of Tissue Papers

Th. Roick

7.6 Chelating Agents in the Pulp and Paper Industry

W.-S. Schultz

7.7 Cleaning Agents for Wires and Felts

U. Hamm, F. Österberg

7.8 Starch in the Production of Fine Papers

T. Gliese

7.9 Starch in the Production of Packaging Papers

W.J. Auhorn

8. Part III

Presented at the 17th PTS-CHT Symposium "Chemical Technology of Papermaking" in Munich, September 12-15, 2006.

Published in "Wochenblatt für Papierfabrikation", Issue 22/2006, page 1297-1346 and in "Professional Papermaking", Issues 1/2007 page 44-54 and 2/2007, page 6-43

8.1 Process Chemicals for the Production of Chemical Pulp

W.J. Auhorn, K. Niemelä

8.2 Dispersants for Fillers and Coating Pigments

T. Gliese

8.3 Polyacrylamides (PAM) for Process Water Treatment in the Production of Mechanical Printing Papers

R. Pelzer, U. Künzel

8.4 Fixatives for Controlling of Detrimental Substances in the Production of Mechanical Printing Papers

U. Künzel, M. Prinz

8.5 Sizing Agents for Wet End and Surface Application

M. Prinz, W.-S. Schultz

8.6 Biocides for Deposit Control in the Production of Corrugated Base Paper

J. Schrijver, B. Wirth

8.7 Crosslinkers for Paper Coating

W. Scholz, W. Kamutzki, R. Pelzer

9. Closing Remarks

S. Kleemann, K. Goebel

10. Index

11. Biographies of Authors

12. List of Sponsors