

REFERENCES

1. Gerhartz W., *Ullman's Encyclopedia of Industrial Chemistry* (Fifth Edition), Volume A5, VCH Verlagsgesellschaft, Weinheim, 1986, p. 489-537
2. West A.R., *Solid State Chemistry and its Applications*, John Wiley and Sons, Chichester, 1984
3. Kroschwitz J.I., *Kirk-Othmer Encyclopedia of Chemical Technology* (Fourth Edition), Volume 5, John Wiley and Sons, New York, 1993, p. 564-598
4. Hewlett P.C., *Lea's Chemistry of Cement and Concrete* (Fourth Edition), Arnold Publishers, London, 1998
5. Taylor H.F.W., *Cement Chemistry* (Second Edition), Thomas Telford Publishing, London, 1997
6. Bhattacharya A., *Simulating Minerals Pyroprocessing by Thermal Analysis*, J. Therm. Anal., 1993, 40, p. 141-149
7. Sorrentino F. and Castanet R., *Application of Thermal Analysis to the Cement Industry*, J. Therm. Anal., 1992, 38, p. 2137-2146
8. Ghosh S.N., *Cement and Concrete Science and Technology*, Volume 1 Part 1, ABI Books Pvt. Ltd., New Delhi, 1991
9. Nettleship I., Shull J.L. and Kriven W.M., *Chemical Preparation and Phase Stability of Ca_2SiO_4 and Sr_2SiO_4 Powders*, J. Eur. Cer. Soc., 1993, 11, p. 291-298

University of Pretoria etd – Schmidt H 2001

10. Nettleship I., Slavick K.G., Kim Y. J. and Kriven W.M., *Phase Transformations in Dicalcium Silicate: III, Effects of Barium on the Stability of Fine-Grained α_L and β -Phases*, J. Am. Ceram. Soc., 1993, 76 (10), p. 2628-2634
11. Chatterjee A.K., *High Belite Cements - Present Status and Future Technological Options: Part 1*, Cem. Concr. Res., 1996, 26 (8), p. 1213-1225
12. Pritts I.M. and Daugherty K.E., *The Effect of Stabilizing Agents on the Hydration Rate of β -C₂S*, Cem. Concr. Res., 1976, 6, p. 783-796
13. Bell C.F. and Lott K.A.K., *Modern Approach to Inorganic Chemistry* (Second Edition), Butterworths, London, 1966
14. Suzuki K. and Yamaguchi G., *Supplementary Paper 1-92: A Structural Study on α^1 -Ca₂SiO₄*, Proc. 5th Int. Congr. Chem. Cem., Tokyo, 1968, 1, p. 67-73
15. Rajczyk K. and Nocun-Wczelik W., *Thermal Methods and Microcalorimetry Applications in the Studies of Low Energy Cements*, J. Therm. Anal., 1992, 38, p. 771-775
16. Teoreanu I. and Andronescu E., *Orthosilicate Compositions in CaO-SrO-BaO-SiO₂ System and Their Water Reactivity*, Proc. 9th Int. Congr. Chem. Cem., 1992, 2, p. 107-113
17. Lide D.R., *CRC Handbook of Chemistry and Physics* (Seventy-fifth Edition), CRC Press, London, 1994
18. Greenwood N.N. and Earnshaw A., *Chemistry of the Elements*, Pergamon Press Limited, Oxford, 1986
19. Boikova A.I., Fomicheva O.I. and Grishchenko L.V., *Barium Containing Clinker Phases*, Proc. 10th Int. Congr. Chem. Cem., Gothenburg, 1997, 1, p. 11058

University of Pretoria etd – Schmidt H 2001

20. Cotton F.A. and Wilkinson G., *Advanced Inorganic Chemistry* (Fourth Edition), John Wiley and Sons, New York, 1980
21. Chatterjee A.K., *Future Technological Options: Part II*, Cem. Concr. Res., 1996, 26 (8), p. 1227-1237
22. Jelenic I. and Bezjak A., *On the Hydration of α' - and β - Modifications of Dicalcium Silicate*, Cem. Concr. Res., 1981, 11, p. 467-471
23. Braniski A., *Die Eigenschaften der silicatischen Bariumzemente in Abhängigkeit vom Aufbau ihrer Klinkerminerale*, Zement-Kalk-Gips, 1968, 2, p. 91-98
24. Lea F.M. and Parker T.W. (1935) in: Lea F.M., *The Chemistry of Cement and Concrete* (Third Edition), Edward Arnold (Publishers) Ltd., Glasgow, 1970, p.164
25. Johansen V. and Christensen N.H., *Laboratory Burnability and Practical Kiln Operation*, 84th Annual Meeting of the Am. Ceram. Soc., Cement Division, Cincinnati, Ohio, 3 May 1982
26. Jenkins R. and Snyder R.L., *Introduction to X-ray Powder Diffractometry*, John Wiley and Sons, New York, 1996
27. Kroschwitz J.I., *Kirk-Othmer Encyclopedia of Chemical Technology* (Fourth Edition), Volume 24, John Wiley and Sons, New York, 1993, p. 678-708
28. Arvanitidis I., Sichen Du. and Seetharaman S., *A Study of the Thermal Decomposition of $BaCO_3$* , Metallurgical and Materials Transactions B, 1996, 27B, p. 409-416
29. Kroschwitz J.I., *Kirk-Othmer Encyclopedia of Chemical Technology* (Fourth Edition), Volume 3, John Wiley and Sons, New York, 1993, p. 909-931
30. Yamaguchi T., Fujii H. and Kuno H., *Kinetic Studies of the Solid State Reaction Involving Intermediate Phases*, J. Inorg. Nucl. Chem., 1972, 34, p. 2739-2745

31. Grobe H. and Tillmans E., *Bariumorthosilicate, Ba₂SiO₄*, Cryst. Struct. Comm., 1974, 3, p. 599-602
32. Ali M.M., Agarwal S.K. and Agarwal S., *Hydration of Monobarium Aluminate Cement*, 4th NCB International Seminar on Cement and Building Materials, New Delhi, 1994, 3, VIII-49+

Selected data sets from the 1995 Powder Diffraction File-2 (Set 45), volume A6, published by the International Centre for Diffraction Data, are given in Tables A.1 to A.15.