



FIGURA 6 REPRESENTACION ESQUEMATICA DE LOS REQUERIMIENTOS DE AGUA PARA DISTINTAS CPP

#### REFERENCIAS

- ANONYMOUS (1914), "An investigation of the pozzolanic nature in coal ash", Engineering News Record, Vol. 71, No. 24, pp. 1334 - 1335.
- N. W. ELMER (1940), "Profitable fly-ash handling", Steel, Vol. 106, -- pp. 64 - 65.
- CEPCED (1978), "Energy in Western Europe - vital role of coal", NCB, London.
- K. YAMAZAKI (1962), "Fundamental studies of the effects of mineral fines on the strength of concrete", Trans. Japan Society of Civil Eng., Vol. 85, pp. 15 - 44.
- H. SCHOLTZ (1978), "German black coal combustion residues, types and uses", Central Electricity Generating Board, National Ash Assoc. (USA), Conference on Ash Technology and Marketing, London.
- BRITISH STANDARDS INSTITUTION (1965), BS 3892: 1965, Specifications for pulverised fuel ash for use in concrete, BSI, London.
- J.G. CABRERA and M. N. GRAY (1973), "Specific surface, pozzolanic activity and composition of pulverised fuel ash", Fuel, Vol. 52.
- J.D. WATT and D.J. THORNE (1966), "The composition and pozzolanic properties of pulverised fuel ash", Journal of Applied Chemistry, Vol. 15, pp. 585 - 604 and Vol. 16, pp. 33 - 39.
- F. E. LEGG (1965), "Experimental fly ash concrete pavement in Michigan", Highway Research Record, No. 73, pp. 1 - 12.
- C. E. LOVEWELL and G. W. WASHA (1958), "Proportioning concrete mixtures -- using fly-ash", ACI Journal, Proc., Vol. 54, No. 12, pp. 1093 - 1102.
- M. BOGDANOVIC (1978), "The use of PFA in concrete - an assessment of present knowledge and future research", Central Electricity Generating Board, National Ash Assoc. (USA), Conference on Ash Technology and Marketing, -- London.
- K. K. JAIN (1978), "Concrete mix proportioning with coarse fly ash", Central Electricity Generating Board, National Ash Assoc. (USA), Conference on Ash Technology and Marketing, London.
- S. S. RESHI and S. K. GRAG (1964), "Proportioning concrete mix concrete -- fly ash", Journal of the Institution of Engineers (India), Vol. 45, Part CII, pp. 68 - 75.
- K. K. JAIN, B. D. NAUTIYAL and O. P. JAIN (1975), "Compressive strength - and modulus of elasticity of fly ash concrete", Journal of the Institution of Engineers (India), Vol. 56, Part CII, pp. 32 - 37, Discussion pp. 201 - 203.
- W. RYAN (1976), "Fly ash utilization and research in Australia", Proc., Fourth International Fly Ash Utilization Symposium.

16. R. E. DAVIS (1950), "Use of pozzolanas in concrete", Proc., American -- Concrete Institution, Vol. 46, pp. 377 - 384.
17. J. T. DIKEOU (1960), "Fly ash increases resistance of concrete to sulphate attack", Research Report No. 23, U. S. Department of the Interior, Bureau of Reclamation.
18. L. J. MINNICK (1967), "Pozzolanic properties of fly ash", Proc., First Fly Ash International Utilization Symposium.
19. C. PLOWMAN (1978), "The chemistry of PFA in concrete - an assessment of present knowledge and future research", Central Electricity Generating Board, National Ash Assoc. (USA), Conference on Ash Technology and Marketing, London.
20. J. JAMBOR (1962), "A new method for determination of pozzolanic activity", Rev. Mater. Constr. Trav. Publics., Vol. 564, pp. 240 - 256.
21. E. RAASK and H. C. BHASKAR (1975), "Pozzolanic activity of pulverised fuel ash", Cem. & Concr. Res., Vol. 5, pp. 363 - 376.
22. G. SHIKAMI (1956), "On pozzolanic reaction of fly ash", Proc., Japan Cement Engineering Assoc., Vol. 10, pp. 221 - 227.
23. L. GUILLAUME (1963), "Pozzolanic activity of fly ash in portland cement - and slag cement", Silicate Industry, Vol. 28, No. 6, pp. 297 - 300.
24. M. VENAUT (1962), "Fly ash cement, influence of the proportion of fly ash on properties of cement", Rev. Mater. Constr. Trav. Publics., Vol. 565, pp. 271 - 279, Vol. 566, pp. 315 - 324, Vol. 567, pp. 349 - 356.
25. K. MATHER (1971), "X-ray diffraction examination of the phases in expansive cement", Adv. X-ray Anal., Vol. 20, pp. 41 - 52.
26. J. E. MANDAR, L. D. ADAMS and E. E. PARKIN (1974), "A method for the determination of some minor compounds in portland cement and clinker by x-ray diffraction", Cem. & Concr. Res., Vol. 4, pp. 533 - 544.
27. M. COLLEPARDI, S. MONOSI and G. MORICONI (1979), "Tetracalcium alumino-ferrite hydration in the presence of lime and gypsum", Cem. & Concr. Res., Vol. 9, pp. 431 - 437.
28. I. JAWED, S. GOTO and R. KONDO (1978), Cem. & Concr. Res., Vol. 8, p. 571.
29. S. CHATTERJI and J. W. JEFFERY (1962), Jour. Amer. Cer. Soc., Vol. 45, -- p. 536.
30. W. L. DE KEYSER and N. TENOUTASSE (1968), Proc., Fifth International Symposium on the Chemistry of Cement, Part II, pp. 379 - 386.
31. F. M. LEA (1970), "The chemistry of cement and concrete", 3rd. Edition.
32. M. COLLEPARDI, G. BALDINI, M. PAURI and M. CORRADI (1978), "Tricalcium Aluminate hydration in the presence of lime, gypsum or sodium sulphate", Cem. & Concr. Res., Vol. 8, pp. 571 - 580.

33. J. G. CABRERA (In preparation), "The use of PFA for land reclamation".
34. C. PLOWMAN (1980), "The chemical behaviour of PFA with added water", Central Electricity Generating Board Research Report, NE/R/396.
35. C. PLOWMAN (In preparation), "X-ray diffraction studies on the C<sub>3</sub>A and C<sub>4</sub>AF hydration products".
36. I. JELENIC, A. PANOVIC, R. HALLE and T. GACESA (1977), "Effect of gypsum on the hydration and strength development of commercial portland cements containing alkali sulphates", Cem. & Concr. Res., Vol. 7, pp. 239 - 246.
37. R. F. FELDMAN and J. J. BOUDOIN (1976), Cem. & Concr. Res., Vol. 6, pp. 389 - 400.
38. H. F. W. TAYLOR (1979), "Mechanism and products of portland cement hydration", Annual meeting of the Japan Cement Assoc.
39. S. DIAMOND (1972), "Identification of hydrated cement and constituents -- using a scanning electron microscope - energy dispersive X - ray spectrometer combination", Cem. & Concr. Res., Vol. 2, pp. 617 - 632.

33. J. G. CARRETERO (in preparation) "The use of PFA for large scale application", Institute, Vol. 46, pp. 17 - 20.
34. C. FLOOMAN (1980), "The development of a new method for determining the resistance of concrete to sulphate attack", Research Report No. 1, U. S. Department of the Interior, Bureau of Reclamation, Denver, Colorado.
35. C. FLOOMAN (in preparation), "Key properties of concrete", Civil Engineering Practice.
- \* COORDINACION IMPRESION MEMORIAS
- Norberto Garza Villarreal
- 33. C. FLOOMAN (1978), "An assessment of present knowledge and future research", Central Electricity Generating Board, National Engineering Laboratory, London, England, pp. 383 - 400.
- \* TRADUCCION A CARGO DE
- Nora Llano Cavazos
- Diego Jimenez Berumen
- Jaime Garcia Garza
- Oscar Gonzalez Garza
- Raul Maltez
- Victor Tamez
- (1962). "Fly ash cement, influence of the proportion of fly ash on the properties of cement", Rev. Mater. Constr. Trav. Publics., Vol. 565, pp. 315 - 324, Vol. 567, pp. 349 - 356.
- \* REVISION TRADUCCION
- Raymundo Rivera Villarreal
- Rodolfo Meza Salas
- M. COLLEPARDI, S. MONSI and S. VINCENZO (1974), "A method for the determination of some minor compounds in portland cement and clinker by x-ray diffraction", Cem. & Concr. Res., Vol. 4, pp. 533 - 544.
- M. COLLEPARDI, S. MONSI and S. VINCENZO (1974), "Aluminate hydration in the presence of lime and gypsum", Cem. & Concr. Res., Vol. 9, pp. 431 - 437.
- I. JAWED, S. GOTO and R. KONDO (1978), Cem. & Concr. Res., Vol. 8, p. 571.
- S. CHATTERJI and J. W. JEFFERY (1962), "Derechos de reproducción reservados por los autores y de traducción por la Facultad de Ingeniería Civil de la U.A.N.L. Prohibida la reproducción total o parcial sin el permiso de los arriba nombrados.", p. 536.
- W. L. DE KEYSER and A. TENOUTAS (1978), "A symposium on the Chemistry of Cement", Cem. & Concr. Res., Vol. 8, p. 571.
- F. M. LEA (1970), "The chemistry of cement and concrete", 3rd. Edition.
- R. COLLEPARDI, G. BALINI, M. PALETI and M. CORRADI (1978), Marzo de 1981 "Aluminate hydration in the presence of lime, gypsum or sodium sulphate", Cem. & Concr. Res., Vol. 8, pp. 571 - 580.

