

## DAFTAR PUSTAKA

1. Nur RR, Hartanti FD, Sutikno P. Studi Awal Desain Pabrik Semen Portland dengan Waste Paper Sludge Ash sebagai Bahan Baku Alternatif. *J Tek ITS.* 2015;4(2):164-168.
2. Novotny R, Bartonickova E, Svec J, Moncekova M. Influence of Active Alumina on the Hydration Process of Portland Cement. *Procedia Eng.* 2016;151:80-86.
3. Rianti F. Pengaruh Perendaman Mortar Semen Portland Type I, Type V dan Type PCC dalam Larutan Sulfat dan Air Laut terhadap Perubahan Panjang. 2011;(July):1-2.
4. Ghafoori N, Najimi M, Diawara H, Islam MS. Effects of class F fly ash on sulfate resistance of Type v Portland cement concretes under continuous and interrupted sulfate exposures. *Constr Build Mater.* 2015;78:85-91.
5. Arifatunurillah A, Saputra A, Sulistyo D. Pengaruh Air Laut Pada Masa Perawatan Terhadap Infiltrasi Ion Klorida Pada Beton Dengan Menggunakan Semen Portland Tipe V. *J Ris Rekayasa Sipil.* 2019;3(1):1.
6. Ningsih T, Chairunnisa R, Miskah S. Pemanfaatan Bahan Additive Abu Sekam Padi pada Semen Portland PT. Semen Baturaja (Persero). *J Tek Kim.* 2012;18:59-67.
7. Pratama SWI, Rauf N, Juarlin E, Pratama SWI, Rauf N, Juarlin E. Pembuatan dan Pengujian Kualitas Semen Portland Yang Diperkaya Silikat Abu Ampas Tebu ( Fabrication and Quality Test of Cement Portland With Enriched by Silicate Sugarcane Bagasse Ash ). *J Fis FMIPA Unhas.* Published online 2014:1-5.
8. Zurdi RA, Fadhilah. Industri Semen Berdasarkan Sifat Fisik Dan Kimia Di Po. Joni Efendi, Kabupaten Padang Pariaman, Provinsi Sumatera Barat. *Bina Tambang.* 2021;6(4):166-174.
9. Jaeni M, Budi FS. Pengaruh Perbandingan Semen Pozolan Dan Semen Portland.(Hargono) Hargono. *Hargono.* Published online 2002:21-25.
10. Cho YK, Jung SH, Choi YC. Effects of chemical composition of fly ash on compressive strength of fly ash cement mortar. *Constr Build Mater.* 2019;204:255-264.
11. Andriani A, Yuliet R, Fernandez FL. Pengaruh Penggunaan Semen Sebagai Bahan Stabilisasi Pada Tanah Lempung Daerah Lambung Bukit Terhadap Nilai Cbr Tanah. *J Rekayasa Sipil.* 2012;8(1):29.
12. Irawati N, Putri NT, BA AH. Strategi Perencanaan Jumlah Material Tambahan dalam Memproduksi Semen dengan Biaya Produksi ( Studi Kasus Pt Semen Padang ). *J Optimasi Sist Ind.* 2015;14(1):176-191.
13. Mohammed S, Safiullah O. Optimization of the SO<sub>3</sub> content of an Algerian Portland cement: Study on the effect of various amounts of gypsum on cement properties. *Constr Build Mater.* 2018;164:362-370.
14. djat Sudrajat DP, Harta Haryadim MA, Mulyono HP RS, Suhendar SS, Toton Sentana Kunrat TS, Mandalawanto Y. BAHAN GALIAN INDUSTRI. *Pus Penelitian dan Pengembangan Teknologi Mineral.* 1997;1:1-5.
15. Yoanita G, Mappiratu M, Prismawiryanti P. Kajian Sintesis Gipsum Dari Batu Gamping Asal Sulawesi Tengah. *Kovalen.* 2016;2(1):39-47.
16. Banten C. PROSES INDUSTRI KIMIA II PROSES PEMBUATAN SEMEN PADA PT . HOLCIM INDONESIA tbk . 2007;(040357).
17. Pease DA. Products, Application And Production Trends. Miller Freeman Inc. *Panels.* 1994;(San Francisco).
18. Telesca A, Marroccoli M, Calabrese D, Valenti GL, Montagnaro F. Flue gas desulfurization gypsum and coal fly ash as basic components of prefabricated building materials. *Waste Manag.* 2013;33(3):628-633.

19. Тимаков ИС, Гребенёв ВВ, Коморников ВА, et al. *GYPSUM PLANT FROM CALCIUM CARBONATE (CaCO<sub>3</sub>) AND SULFURIC ACID (H<sub>2</sub>SO<sub>4</sub>) USING SYNTHESIS PROCESS*. Vol 7.2020.
20. Freddy ZI, Sujandari NS, Djarwanti N. Stabilisasi Tanah Gambut Menggunakan Campuran Gypsum Sintetis ( CaSO<sub>4</sub> . 2H<sub>2</sub>O ) dan Garam Dapur Ditinjau dari Pengujian Triaxial UU. *e-Jurnal MATRIKS Tek SIPIL*. 2016;(September):875-883.
21. Manimoy H, Tonu Lema YE, Klaping ED, Tang M, Botahala L. Study of Chemical Concentration of Main Ingredients for Making Portland Composite Cement. *Sci J Widya Tek*. 2021;20(1):28-32.
22. Bediako M, Amankwah EO. Analysis of chemical composition of Portland cement in Ghana: A key to understand the behavior of cement. *Adv Mater Sci Eng*. Published online 2015:2.
23. Marzuki I. Analisis Penambahan Additive Batu Gamping Terhadap Kualitas Komposisi Kimia Semen Portland. *J Chem*. 2009;10(1):64-70.
24. Nuhu S, Ladan S, Umar Muhammad A. Effects and Control of Chemical Composition of Clinker for Cement Production. *Int J Control Sci Eng*. 2020;2020(1):16-21.
25. Zhu H, Ma M, He X, et al. Effect of wet-grinding steel slag on the properties of Portland cement: An activated method and rheology analysis. *Constr Build Mater*. 2021;286:122823.
26. Widojoko L. Pengaruh Sifat Kimia Terhadap Unjuk Kerja Mortar. *J Tek Sipil UBL*. 2010;1(1):52-59.
27. Team pelayanan teknis PT. Semen Padang. *Teknologi Semen*. 1998th ed.; 1998.
28. Abdul Maulud KN, Fitri A, Wan Mohtar WHM, Wan Mohd Jaafar WS, Zuhairi NZ, Kamarudin MKA. A study of spatial and water quality index during dry and rainy seasons at Kelantan River Basin, Peninsular Malaysia. *Arab J Geosci*. 2021;14(2).
29. SNI 15-2049-2004. Semen Portland. *Badan Stand Nas Indones*. Published online 2004:1-128.
30. Yaphary YL, Yu Z, Lam RHW, Lau D. Effect of triethanolamine on cement hydration toward initial setting time. *Constr Build Mater*. 2017;141:94-103.
31. Hu J, Ge Z, Wang K. Influence of cement fineness and water-to-cement ratio on mortar early-age heat of hydration and set times. *Constr Build Mater*. 2014;50:657-663.
32. Yulianto A. Analisis Pengendalian Kualitas Multivariat terhadap Syarat-Syarat Sifat Kimia dan Fisika Semen Portland Tipe V. Published online 2004.
33. Purnawan I, Prabowo A. Pengaruh Penambahan Limestone terhadap Kuat Tekan Semen Portland Komposit. *J Rekayasa Proses*. 2018;11(2):86.
34. Hariawan JB. Pengaruh Perbedaan karakteristik Type Semen Ordinary Portland Cement (OPC) dan Portland Composite Cement (PCC) Terhadap Kuat Tekan Mortar. *Univ Gunadarma*. Published online 2011.
35. Yusuf Y, Savitri VF, Aziz H. Pengaruh Penggunaan Fly Ash dari Berbagai Sumber terhadap Sifat Kimia dan Sifat Fisika pada Semen Tipe I (OPC). *J Ris Kim*. 2020;11(2):61-71.
36. Fitri, et.al. Identifikasi Kandungan Material Perekat pada Benteng Purba di Kawasan Aceh Besar Menggunakan XRF. *Phys Sociesty*. 2016;5(2):14-18.
37. Badan Standardisasi Nasional. Semen Portland. *Sni 20492015*. Published online 2015:147.
38. Irawan RR. *Semen Portland Di Indonesia Untuk Aplikasi Beton Kinerja Tinggi*. Kementrian Pekerjaan Umum; 2013.
39. P FEG, Tanzil G. Pengaruh Sulfat Terhadap Kuat Tekan Beto. 2013;1(1):68-73.

40. Baldermann A, Rezvani M, Proske T, et al. Effect of very high limestone content and quality on the sulfate resistance of blended cements. *Constr Build Mater.* 2018;188:1065-1076.
41. Felekoğlu B, Ramyar K, Tosun K, Musal B. Sulfate resistances of different types of Turkish Portland cements by selecting the appropriate test methods. *Constr Build Mater.* 2006;20(9):819-823.
42. Hodhod OA, Salama G. Simulation of expansion in cement based materials subjected to external sulfate attack. *Ain Shams Eng J.* 2014;5(1):7-15.
43. Hodhod OA, Salama G. Developing an ANN model to simulate ASTM C1012-95 test considering different cement types and different pozzolanic additives. *HBRC J.* 2018;9(1):1-14.
44. Sahmaran M, Erdem TK, Yaman IO. Sulfate resistance of plain and blended cements exposed to wetting-drying and heating-cooling environments. *Constr Build Mater.* 2007;21(8):1771-1778.
45. ASTM C1012/C1012M-15. Standard test method for length change of hydraulic-cement mortars exposed to a sulfate solution. *ASTM Int West Conshohocken, PA.* 2015;11:5-9.
46. Arifatunurrillah A, Saputra A, Suistyo D. Pengaruh Air Laut Pada Masa Perendaman Terhadap Infiltrasi Ion. *J Ris Rekayasa Sipil Univ Sebel Maret Surakarta Vol3 No1, Sept 2019.* 2019;3(1):1-6.
47. Husin AA. Penelitian Pengaruh Larutan Garam Sulfat Terhadap Kualitas Beton Ringan. *J Permukim.* 2010;Vol. 5 No.:78-84.
48. Tian B, Cohen MD. Does gypsum formation during sulfate attack on concrete lead to expansion. *Cem Concr Res.* 2000;30(1):117-123.
49. Nasution MH, Nurcahyo Putri NB, Candra L. Pengaruh Komposisi Gypsum Terhadap Setting Time Pada Proses Produksi Semen PCC. *Chem J Tek Kim.* 2019;6(1):31.

