

DAFTAR PUSTAKA

- AASHTO. (1962). AASHTO Road Test Report No. 5: Pavement Research. American Association of State Highway Officials, Washington D.C.
- Airey, G.D. (2003). Rheological properties of styrene butadiene styrene polymer modified road bitumens. *Fuel*, 82(14), 1709-1719.
- Amal, A., et al. (2011). Penambahan Kadar Lateks pada Campuran Aspal (Asphalt Treated Base) terhadap Stabilitas. *Jurnal Teknik Sipil Universitas Bung Hatta*.
- Asphalt Institute. (2001). Superpave Mix Design, SP-2. Asphalt Institute, Lexington, Kentucky.
- Asphalt Institute. (2007). The Asphalt Handbook, MS-4 (7th ed.). Asphalt Institute, Lexington, Kentucky.
- Asphalt Institute. (2014). Performance Graded Asphalt Binder Specification and Testing. Asphalt Institute, Lexington, Kentucky.
- ASTM D 4123-82. (1995). Standard Test Method for Indirect Tension Test for Resilient Modulus of Bituminous Mixtures. ASTM International.
- ASTM D5-97. Standard Test Method for Penetration of Bituminous Materials. ASTM International.
- ASTM D6114-09. Standard Specification for Asphalt-Rubber Binder. ASTM International.
- Brown, E.R., Kandhal, P.S., Roberts, F.L., Kim, Y.R., Lee, D.Y., & Kennedy, T.W. (2004). Hot Mix Asphalt Materials, Mixture Design, and Construction (3rd ed.). NAPA Research and Education Foundation.
- Caro, S., Masad, E., Bhasin, A., & Little, D.N. (2008). Moisture susceptibility of asphalt mixtures, Part 1: mechanisms. *International Journal of Pavement Engineering*, 9(2), 81-98.
- Darunifah, N. (2007). Pengaruh Penambahan Karet terhadap Karakteristik Campuran HRS-WC. Tesis, Universitas Diponegoro, Semarang.
- Dep. Kimpraswil. (2002). Manual Pekerjaan Campuran Beraspal Panas. Departemen Permukiman dan Prasarana Wilayah, Jakarta.

- Ditjen Bina Marga. (2021). Laporan Kinerja Infrastruktur Jalan Nasional. Direktorat Jenderal Bina Marga, Kementerian PUPR, Jakarta.
- Fuller, W.B., & Thompson, S.E. (1907). The laws of proportioning concrete. Transactions of the American Society of Civil Engineers, 59, 67-143.
- Hermadi, M., Susanto, I., & Nasruddin. (2021). Pengembangan Metode Penggunaan Karet Alam Lateks Kebun sebagai Bahan Tambah pada Campuran Beraspal Panas. Jurnal Jalan-Jembatan, 38(1).
- Herrin, M., & Jones, G.M. (1963). The behavior of bituminous materials from the viewpoint of the absolute rate theory. Proceedings of the Association of Asphalt Paving Technologists, 32, 82-117.
- Huang, Y.H. (2004). Pavement Analysis and Design (2nd ed.). Pearson Prentice Hall, New Jersey.
- Iwan Susanto. (2019). Kinerja Campuran AC-WC dengan Aspal Karet: Studi Marshall, Wheel Tracking, dan Modulus Resilien. Jurnal Teknik Sipil dan Lingkungan.
- Jihanny, J., Subagio, B.S., & Hardono, S. (2018). Analysis of Road Pavement Damage Caused by Overloaded Vehicles Based on Weigh-In-Motion Data in Indonesia. IOP Conference Series: Materials Science and Engineering, 309, 012015.
- Kaseke, O.H., & Sendow, T.K. (2015). Pengaruh Viskositas Aspal terhadap Karakteristik Marshall Campuran. Jurnal Sipil Statik, 3(11).
- Kementerian PUPR. (2019). Kebijakan Penanganan ODOL (Over Dimension Over Loading) pada Jalan Nasional. Kementerian Pekerjaan Umum dan Perumahan Rakyat, Jakarta.
- Lottman, R.P. (1982). Predicting moisture-induced damage to asphaltic concrete (NCHRP Report 192). Transportation Research Board, Washington D.C.
- Manual Design Perkerasan. (2017). Manual Desain Perkerasan Jalan 2017. Direktorat Jenderal Bina Marga, Kementerian PUPR, Jakarta.
- Moavenzadeh, F. (1967). Fracture characteristics of asphalt materials at low temperatures. Highway Research Record No. 178.

- Nadhifah, N., & Susanti, E. (2024). Karakterisasi Aspal Ex. Pertamina Pen 60/70 dan Ex. Atlas: Uji Penetrasi dan Daktilitas. *Jurnal Rekayasa Infrastruktur*.
- Nijboer, L.W., & van der Poel, C. (1953). A study of vibration phenomena in asphaltic road construction. *Proceedings of the Association of Asphalt Paving Technologists*, 22.
- Nutting, P.G. (1921). A new general law of deformation. *Journal of the Franklin Institute*, 191(5), 679-685.
- Papagiannakis, A.T., & Masad, E.A. (2008). *Pavement Design and Materials*. John Wiley & Sons, New Jersey.
- Prastanto, H., Fathurrohman, F., & Indriasari. (2018). Pengaruh Sistem Vulkanisasi Kompon Karet SIR 20 terhadap Sifat Aspal Karet. *Jurnal Penelitian Karet*, 36(2), 143-154.
- Prozzi, J.A., & Madanat, S.M. (2004). Development of pavement performance models by combining experimental and field data. *Journal of Infrastructure Systems, ASCE*, 10(1), 9-22.
- Puslitbang. (2000). *Spesifikasi Campuran Beraspal Panas dengan Pendekatan Kepadatan Mutlak*. Puslitbang Jalan dan Jembatan, Bandung.
- Roberts, F.L., Kandhal, P.S., Brown, E.R., Lee, D.Y., & Kennedy, T.W. (1996). *Hot Mix Asphalt Materials, Mixture Design, and Construction* (2nd ed.). NAPA Education Foundation, Lanham, Maryland.
- Rochaeti, N., Hardiani, R., & Widodo, S. (2019). Karakteristik ACWC dengan Penambahan SIR 20 menggunakan Metode Kepadatan Mutlak. *Jurnal Teknik Sipil Universitas Syiah Kuala*, 8(3).
- SHRP. (1994). *Standard Specifications for Performance Graded Asphalt Binder (AASHTO MP 1)*. Strategic Highway Research Program, Washington D.C.
- Silvia Sukirman. (2003). *Beton Aspal Campuran Panas*. Yayasan Obor Indonesia, Jakarta.
- SNI 03-6844-2002. *Metode Pengujian Deformasi Permanen Campuran Beraspal dengan Alat Uji Jejak Roda (Wheel Tracking Machine)*. Badan Standardisasi Nasional.

- SNI 06-2489:1991. Metode Pengujian Campuran Beraspal Panas dengan Alat Marshall. Badan Standardisasi Nasional.
- SNI 1903:2011. Spesifikasi Karet Alam Indonesia (Standard Indonesian Rubber/SIR). Badan Standardisasi Nasional.
- SNI 2432:2011. Cara Uji Daktilitas Aspal. Badan Standardisasi Nasional.
- SNI 2434:2011. Cara Uji Titik Lembek Aspal dengan Alat Cincin dan Bola. Badan Standardisasi Nasional.
- SNI 2456:2011. Cara Uji Penetrasi Aspal. Badan Standardisasi Nasional.
- Spesifikasi Khusus Interim SKh-1.M.04. (2021). Aspal yang Mengandung Karet Alam Padat. Direktorat Jenderal Bina Marga, Kementerian PUPR.
- Spesifikasi Teknis HLRIP. (2008). Heavy Loaded Road Improvement Project (HLRIP) Specification. Direktorat Jenderal Bina Marga, Kementerian PUPR.
- Spesifikasi Umum Bina Marga 2018 Revisi 2. Seksi 6.3: Campuran Beraspal Panas. Direktorat Jenderal Bina Marga, Kementerian PUPR.
- Sulaiman, A., Irianti, L., & Nurdin, S. (2018). Pengaruh Penambahan SIR 20 terhadap Karakteristik Campuran AC-WC. Jurnal Teknik Sipil Untan.
- Tampi, C.K., Kumaat, E.J., & Waani, J.E. (2019). Pengaruh Penggunaan Agregat Kasar dan Halus yang Berbeda Sifat Fisik dan Mekanik terhadap Campuran Aspal Panas Modifikasi. Jurnal Sipil Statik, 7(2).
- Tatang Dahlan, et al. (1999). Karet Lateks sebagai Bahan Tambah Aspal Minyak. Laporan Penelitian, Pusat Penelitian Karet, Bogor.
- The Shell Bitumen Handbook, Sixth Edition. (2015). Shell Bitumen, ICE Publishing, London.
- U.S. Department of Transportation. Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects. FHWA, Washington D.C.
- Vavrik, W.R., Pine, W.J., & Carpenter, S.H. (2002). Aggregate blending for asphalt mix design: Bailey method. Transportation Research Record 1789, Transportation Research Board.
- Walls, J., & Smith, M.R. (1998). Life-Cycle Cost Analysis in Pavement Design. FHWA-SA-98-079, Federal Highway Administration, Washington D.C.

- Welborn, J.Y., & Halstead, W.J. (1959). Properties of Highway Asphalts (NCHRP Report). Highway Research Board, Washington D.C.
- Widianto, B.W., et al. (2025). Korelasi Modulus Resilien terhadap Ketahanan Deformasi Permanen pada Lapis Perkerasan Lentur. *Jurnal Jalan-Jembatan*, 42(1).
- World Bank. (1997). Roads and the Economy. World Bank Technical Paper No. 376.
- Yoder, E.J., & Witczak, M.W. (1975). Principles of Pavement Design (2nd ed.). John Wiley & Sons, New York.
- Yuniarti, R., Hasyim, H., & Farida, I. (2021). Pengaruh Daktilitas Aspal Modifikasi Getah Pinus dan Limbah Styrofoam terhadap Sifat Volumetrik Campuran. *Jurnal Spektran*, 9(1).

