

- [4] M. Amelzadeh, S. E. Mirsalehi. Dissimilar joining of WC-Co to steel by low-temperature brazing. *Materials Science and Engineering: B*, 2020, Vol. 259, pp. 114597.
- [5] H. Chen, K. Feng, S. Wei, J. Xiong, Z. Guo, and H. Wang. Microstructure and properties of WC-Co/3Cr13 joints brazed using Ni electroplated interlayer, *Int. J. Refract. Met. Hard Mater*, 2012. Vol. 33, pp. 70–74.
- [6] A. Amirnasiri, N. Parvin. Dissimilar diffusion brazing of WC-Co to AISI 4145 steel using RBCuZn-D interlayer. *Journal of Manufacturing Processes*, 2017, Vol. 28, pp. 82-93.
- [7] B. Cheniti, D. Miroud, R. Badji, D. Allou, T. Csanádi, M. Fides, P. Hvizdoš. Effect of brazing current on microstructure and mechanical behavior of WC-Co/AISI 1020 steel TIG brazed joint. *International Journal of Refractory Metals and Hard Materials*, 2017, Vol. 64, pp. 210-218.
- [8] G. Chen, X. Shu, J. Liu, B. Zhang, B. Zhang, J. Feng, Investigation on microstructure of electron beam welded WC-Co/40Cr joints, *Vacuum*, 2018, Vol. 149, pp. 96–100.
- [9] Y. Winardi, Triyono, N. Muhayat. Effect of Post-Braze Heat Treatment on the Microstructure and Shear Strength of Cemented Carbide and Steel Using Ag-Based Alloy. In *IOP Conference Series: Materials Science and Engineering*, 2018, Vol. 333, No. 1, art. id. 012039.
- [10] Y. Jing, Q. Yang, W. Xiong, B. Huang, B. Li, M. Zhang. Microstructure and shear strength of brazed joints between Ti(C,N)-based cermet and steel with CuAgTi filler metal, *J. Alloys Compd.*, 2016, Vol. 682, pp. 525–530.
- [11] C. Jiang, H. Chen, Q. Wang, Y. Li, Effect of brazing temperature and holding time on joint properties of induction brazed WC-Co/carbon steel using Ag-based alloy, *J. Mater. Process. Technol.*, 2016, Vol. 229, pp. 562–569.
- [12] K. Nagatsuka, Y. Sechi, N. Ma, K. Nakata. Simulation of cracking phenomena during laser brazing of ceramics and cemented carbide. *Science and Technology of Welding and Joining*, 2014, Vol. 19, No. 8, pp. 682-688.
- [13] S. Li, Z. Li, Y. Chen, Y. Zu, J. Xiong, F. Zhang, J. Li. Microstructural evolution and mechanical properties of diffusion bonding WC-Co cemented carbide to steel using Co and composite Ni/Co interlayers. *International Journal of Refractory Metals and Hard Materials*, 2022, Vol. 103, art. id. 105736.
- [14] C. M. Fernandes, A. M. R. Senos. Cemented carbide phase diagrams: a review. *International Journal of Refractory Metals and Hard Materials*, 2011, Vol. 29, No. 4, pp. 405-418.
- [15] S. J. Lee, A. Sharma, D. H. Jung, J. P. Jung. Influence of arc brazing parameters on microstructure and joint properties of electro-galvanized steel, *Metals (Basel)*, 2019, Vol. 9, No. 9, art. id. 1006.
- [16] B. Ma, X. Wang, C. Chen, D. Zhou, P. Xu, X. Zhao. Dissimilar welding and joining of cemented carbides. *Metals*, 2019, Vol. 9, No. 11, art. id. 1161.
- [17] C. Barbatti, J. Garcia, G. Liedl, A. Pyzalla. Joining of cemented carbides to steel by laser beam welding. *Materialwissenschaft und Werkstofftechnik: Entwicklung, Fertigung, Prüfung, Eigenschaften und Anwendungen technischer Werkstoffe*, 2007, Vol. 38, No. 11, pp. 907-914.
- [18] J. Garcia, V. C. Cires, A. Blomqvist, B. Kaplan. Cemented carbide microstructures: a review. *International Journal of Refractory Metals and Hard Materials*, 2019, Vol. 80, pp. 40-68.
- [19] Z. S. Yu, R. F. Li, and K. Qi. Growth behavior of interfacial compounds in galvanized steel joints with CuSi3 filler under arc brazing. *Trans. Nonferrous Met. Soc. China (English Ed)*. 2006. vol. 16, no. 6, pp. 1391–1396.
- [20] A. Sharma, S. J. Lee, D. Y. Choi, and J. P. Jung. Effect of brazing current and speed on the bead characteristics, microstructure, and mechanical properties of the arc brazed galvanized steel sheets. *J. Mater. Process. Technol.* 2017. Vol. 249, pp. 212–220.
- [21] F. Alexe, V. Cenusă. Thermodynamic Analyses for Optimizing the Design of HTGR's Helium Brayton Cycles. *WSEAS Transactions on Environment and Development*, 2008, Vol. 11, No. 4, pp. 1014-1025.
- [22] M. A. Alghoul, M. Y. Sulaiman, K. Sopian, M. Yahya, A. Zaharim. Experimental and simulation study on Malaysian activated carbon as adsorbent in a dual-purpose solar system. *WSEAS Transactions on Environment and Development*, 2009, Vol. 5, No. 3, pp. 331-339.

Sources of Funding for Research Presented in a Scientific Article or Scientific Article Itself

This work was supported by a PTUPT 2021 research grant from the Ministry of Education, Culture, Research, and Technology of the Republic of Indonesia [contract # 13/E4.1/AK.04.PT/2021;18/AMD-SP2H/LT-MULTI-TERAPAN/LL7/2021; 140/VI.4/PN/2021]

Creative Commons Attribution License 4.0 (Attribution 4.0 International, CC BY 4.0)

This article is published under the terms of the Creative Commons Attribution License 4.0

https://creativecommons.org/licenses/by/4.0/deed.en_US