

DAFTAR PUSTAKA

- Abbass, M., & Alwan, A. S. (2017a). *Effect of Nitriding and shot peening on Corrosion Behavior and Surface Properties of Austenite stainless steel 316L*.
<https://www.researchgate.net/publication/316280079>
- Abbass, M., & Alwan, A. S. (2017b). *Effect of Nitriding and shot peening on Corrosion Behavior and Surface Properties of Austenite stainless steel 316L*.
<https://www.researchgate.net/publication/316280079>
- Ahmed, A. A., Mhaede, M., Basha, M., Wollmann, M., & Wagner, L. (2015). The effect of combined plasma nitriding and *shot peening* on fatigue performance of Ti-6Al-4V alloy. *Surface and Coatings Technology*, 276, 646–652.
<https://doi.org/10.1016/j.surfcoat.2015.06.061>
- ASM International. (2012). *ASM Handbook, Volume 23: Materials for Medical Devices*. ASM International.
- ASTM International. (2017). ASTM E384-17: Standard Test Method for Microindentation Hardness of Materials. ASTM International. <https://doi.org/10.1520/E0384-17>
- Brett, P., Harle, J., & Salih, V. (2004). Cells and surfaces: A review of cell-surface interactions in the context of biomaterial implants. *Journal of Materials Science: Materials in Medicine*, 15(9), 889–896.
<https://doi.org/10.1023/B:JMSM.0000042672.59348.96>
- Bonnici, L., Buhagiar, J., Cassar, G., Vella, K. A., Chen, J., Zhang, X. Y., Liu, M. Y., Huang, Z. Q., & Zammit, A. (n.d.). *The Effect of shot peening on Additively Manufactured 316L stainless steel for the Marine Transportation Industry*.
- Borgioli, F., Galvanetto, E., & Bacci, T. (2020). Low temperature plasma nitriding of AISI 202 austenitic *stainless steel*: Influence on surface properties and corrosion resistance. *Surface and Coatings Technology*, 389, 125–138.
- Buehler. (2021). *Microindentation Hardness Testing: Vickers and Knoop*. Buehler, ITW Test & Measurement. <https://www.buehler.com/blog/vickers-hardness-testing/>
- Callister, W. D., & Rethwisch, D. G. (2014). *Materials Science and Engineering: An Introduction (9th ed.)*. John Wiley & Sons. <https://ftp.idu.ac.id/wp-content/uploads/ebook/tdg/TEKNOLOGI%20REKAYASA%20MATERIAL%20PERTAHANAN/MATERIALS%20SCIENCE%20AND%20ENGINEERING%20AN%20INTRODUCTION%209TH%20ED%20BY%20CALLISTER.pdf>

- Callister, W. D., & Rethwisch, D. G. (2020). *Materials Science and Engineering: An Introduction* (10th ed.). John Wiley & Sons. https://doi.org/10.1002/9781119453918?utm_
- Davis, J. R. (1994). *Stainless steels*. ASM International.
- Frączek, D., Rudnicki, J., & Krawczyk, J. (2022). Nitriding of 316L Steel in a Glow Discharge Plasma. *Materials Characterization*, 188, 111889. <https://doi.org/10.3390/ma15093081>
- Ebrahimzadeh, A., Mahdavi, S., & Nili-Ahmadabadi, M. (2024). Optimization of *shot peening* parameters for AISI 316L *stainless steel* using response surface methodology (RSM). *Materials Research Express*, 11(2), 026512. <https://doi.org/10.1088/2053-1591/ad1a90>
- Geetha, M., Singh, A. K., Asokamani, R., & Gogia, A. K. (2009). Ti based biomaterials, the ultimate choice for orthopaedic implants – A review. *Progress in Materials Science*, 54(3), 397–425. <https://doi.org/10.1016/j.pmatsci.2008.06.004>
- Hasani, I. A., & Iswanto, P. T. (2023). Pengaruh *shot peening* terhadap sifat fisis dan mekanis *stainless steel* 316L. *Prosiding Seminar Nasional Inovasi Teknologi (INOTEK)*, 7, 41–48. Universitas Nusantara PGRI Kediri. <https://proceeding.unpkediri.ac.id/index.php/inotek/article/view/3408>
- Hosford, W. F. (2009). *Mechanical Behavior of Materials* (2nd ed.). Cambridge University Press. <https://ceimusb.wordpress.com/wp-content/uploads/2015/04/mechanicalbehaviorofmaterialshosford.pdf>
- ISO 4287. (1997). Geometrical Product Specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters. International Organization for Standardization.
- M. Jayalakshmi, B. R. Bhat, and K. U (2017). Bhat, “Effect of shot peening coverage on surface nanostructuring of 316L stainless steel and its influence on low-temperature plasma nitriding,” *Materials Performance and Characterization*, vol. 6, no. 5, pp. 561–570, doi: 10.1520/MPC20160079.
- Kocijan, A., Conradi, M., & Hočevár, M. (2019). The influence of surface *wettability* and topography on the bioactivity of TiO₂/epoxy coatings on AISI 316L *stainless steel*. *Materials*, 12(11). <https://doi.org/10.3390/ma12111877>
- Kota, A. K., Kwon, G., & Tuteja, A. (2014). The design and applications of superomniphobic surfaces. In *NPG Asia Materials* (Vol. 6, Issue 6). Nature Publishing Group. <https://doi.org/10.1038/am.2014.34>
- Landek, D., Kurtela, M., Stojanović, I., Jačan, J., & Jakovljević, S. (2023). Corrosion and micro-abrasion properties of an AISI 316L austenitic *stainless steel* after low-

- temperature plasma nitriding. *Coatings*, 13(11), 1854. MDPI. <https://doi.org/10.3390/coatings13111854>
- Li, Y., Wang, Z., Wang, L., & Wang, C. (2013). *Surface properties of nitrated layer on AISI 316L austenitic stainless steel produced by high temperature plasma nitriding in short time*. *Applied Surface Science*, 273, 799–805. <https://doi.org/10.1016/j.apsusc.2013.02.076>
- Lu, Y., Li, D., Ma, H., Liu, X., Wu, M., & Hu, J. (2021). Enhanced plasma nitriding efficiency and properties by severe plastic deformation pretreatment for 316L austenitic stainless steel. *Journal of Materials Research and Technology*, 15, 1742–1746. <https://doi.org/10.1016/j.jmrt.2021.08.082>
- Mukhsen, M. I., Nur, R., Rakka, C. R., & Fattah, M. A. (2021). Pengaruh parameter shot terhadap kekerasan dan kekasaran permukaan melalui proses shot-peening stainless steel tipe 316. *Jurnal Teknik Mesin Sinergi*, 19(1), 18–24.
- Park, J. B., & Lakes, R. S. (2007). *Biomaterials: An Introduction* (3rd ed.). Springer. <https://doi.org/10.31963/sinergi.v19i1.2732>
- Orouji, Z., Pour-Ali, S., & Tavangar, R. (2024). Exploring microstructural evolution, nitrogen depth profile, and dry wear performance in 31CrMoV9 steel through combined severe shot peening and plasma nitriding. *Materials Today Communications*, 39. <https://doi.org/10.1016/j.mtcomm.2024.109182>
- Outokumpu. (2013). *Handbook of stainless steel*. Outokumpu Oyj.
- Park, J. B., & Lakes, R. S. (2007). *Biomaterials: An Introduction* (3rd ed.). Springer. DOI: <https://doi.org/10.1007/978-0-387-37880-0>
- Payana, Y., Firmansyah, H., & Widjaja, S. (2018). Analisis kekerasan permukaan baja karbon dengan metode Vickers setelah perlakuan panas. *Jurnal Material dan Energi Indonesia*, 8(2), 45–52.
- Pratama, D., Susanto, B., & Widodo, S. (2022). Pengaruh variasi tekanan gravity shot peening terhadap sifat mekanis baja S45C. *Jurnal Teknik Mesin Indonesia*, 17(2), 75–83. <https://ejournal.itn.ac.id/index.php/flywheel/article/download/5688/3475/>
- Rasyadi, M., & Iswanto, P. T. (2024). Pengaruh shot peening dan sputtering TiN terhadap sifat mekanis stainless steel 316L. *Jurnal Material dan Proses Manufaktur Indonesia*, 5(1), 25–34. <https://jurnal.umj.ac.id/index.php/semnastek/article/download/22640/10468/59635>
- Rohi, J. R., Lopo, E. B., & Bistolen, B. (2024). Pengaruh sputtering TiN terhadap kekerasan permukaan dan struktur mikro pada material stainless steel 316L. *Jurnal Teknik*

Mesin, 17(1), 100–105. Politeknik Negeri Padang.
<https://doi.org/10.30630/jtm.17.1.1196>

Rupp, F., Gittens, R. A., Scheideler, L., Marmur, A., Boyan, B. D., Schwartz, Z., & Geis-Gerstorfer, J. (2014). A review on the *wettability* of dental implant surfaces I: Theoretical and experimental aspects. In *Acta Biomaterialia* (Vol. 10, Issue 7, pp. 2894–2906). Elsevier Ltd. <https://doi.org/10.1016/j.actbio.2014.02.040>

Ruzova, T. A., & Haddadi, B. (2025). *Surface roughness and its measurement methods – Analytical review*. *Results in Surfaces and Interfaces*, 17, 100123.

Sinnott, R. K. (2005). *Chemical engineering design* (4th ed.). Elsevier Butterworth-Heinemann.

Statistik, B. P. (2024). *Statistik Transportasi Darat 2023*.
<https://www.bps.go.id/publication/2024/11/25/cdcf9b5e74dd2e9bb3458ee4/statistik-transportasi-darat-2023.html>

Stinville, J. C., Villechaise, P., Templier, C., Riviere, J. P., & Drouet, M. (2010). Plasma nitriding of 316L austenitic *stainless steel*: Experimental investigation of fatigue life and surface evolution. *Surface and Coatings Technology*, 204(12–13), 1947–1951.
<https://doi.org/10.1016/j.surfcoat.2009.09.052>

Walczak, M. (2023). Surface Characteristics and Wear Resistance of 316L *stainless steel* after Different *shot peening* Parameters. *Advances in Science and Technology Research Journal*, 17(3), 124–132. <https://doi.org/10.12913/22998624/165800>

Watanabe, K., Fukuzaki, S., Sugino, A., Benson, N., Metcalf, N., Nakamura, M., & Matsumoto, M. (2021). Cobalt-chromium alloy has superior antibacterial effect than titanium alloy: In vitro and in vivo studies. *Spine*, 46(17), E911–E915.
<https://doi.org/10.1097/BRS.0000000000003970>

Wennerberg, A., Albrektsson, T., & Lausmaa, J. (1998). Torque and histomorphometric evaluation of screw-shaped implants with three different surface topographies. *Clinical Oral Implants Research*, 9(1), 11–19.
<https://pubmed.ncbi.nlm.nih.gov/9590940/>

Yetim, A. F., Yildiz, F., Alsaran, A., & Elik, A. C. . (2008). *Surface modification of 316L stainless steel with plasma nitriding* (Vol. 46).

ZwickRoell. (n.d.). Hardness Testing Methods: Brinell, Vickers, Rockwell, and Knoop. ZwickRoell GmbH & Co. KG. https://www.zwickroell.com?utm_