

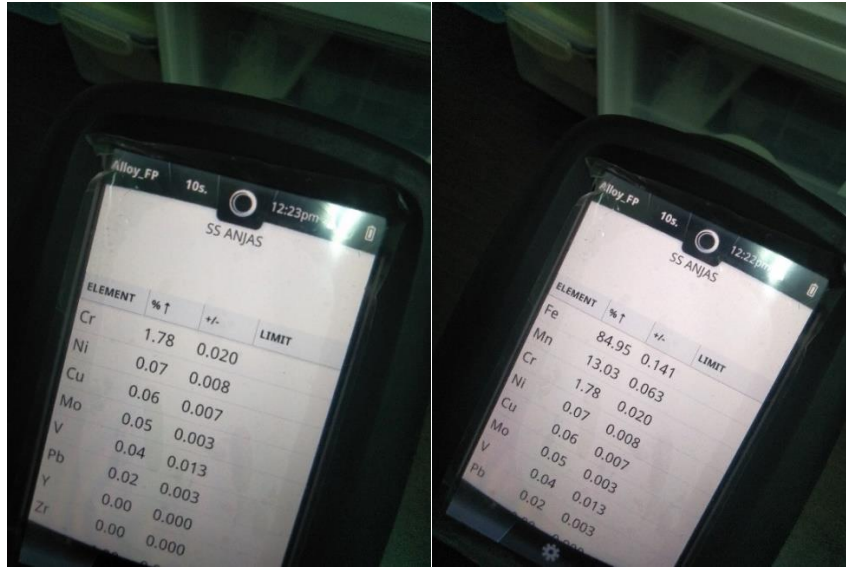
DAFTAR PUSTAKA

- Abrianto A., 2008, Analisis Struktur Mikro dan Sifat Mekanik Baja Mangan Austenitik Hasil Proses Perlakuan Panas.
- Akita, M. and Tokaji, K. 2006. *Effect of Carburizing on Notch Fatigue Behaviour in AISI 316 Austenitic Stainless Steel*. Yanagido, Gifu 501-1193, Japan : *Surface and Coatings Technology* 200 (2006) 6073-6078.
- Bahfie F., Aleiya Z., Milandia A., Nurjaman F., 2020, *Study of The Effect of Manganese Content and Austenitization Temperature on The Microstructure and Mechanical Properties of Manganese Steel*.
- Baxter R., 2008, *Effects of heat treatment and chemical composition on microstructure and mechanical properties of hadfield steels*.
- Furukawa, T.; Huang, H.; Matsumura, O. *Effects of carbon content on mechanical properties of 5%Mn steels exhibiting transformation induced plasticity. Mater. Sci. Tech.* 1994, 10, 964–970.
- Hesti., 2018, Pengaruh Variasi Media Karburasi Terhadap Kekerasan Dan Kedalaman Difusi Karbon Pada Baja ST 42.
- Hidayat E.; Bandanadjaja B., 2018, Peningkatan Nilai Impak Baja Hadfield Mn 12 Melalui Proses Perlakuan Panas Homogenisasi Bertahap.
- Lee, Y.K.; Han, J. *Current opinion in medium manganese steel. Mater. Sci. Tech.* 2015, 31, 843–856.
- Panjaitan A., 2015, Pengaruh Bahan Baku Arang Aktif Pada Proses *Carburizing* Terhadap Sifat Mekanis Baja Bohler EMS-45 Untuk Center Dead Mesin Bubut Konvensional.
- Putra AK., Akbar A., Pramesti YS., 2020, Pengaruh *Quenching* St 304 Terhadap Nilai Kekerasan Dengan *Heat Treatment* Pada Suhu 750 C Media Pendingan Larutan Garam.
- Rasid M, Dkk., 2018, Pengaruh Proses *Pack Carburizing* Menggunakan Media Batubara Terhadap Kekerasan Pisau Kuduk Khas Daerah Gedung Agung Lahat.
- Rizal Y.; Ismardi., Pengaruh Perlakuan Panas Terhadap Sifat Kekerasan (*Hardness*) Pada Roda Gigi Tarik Sepeda Motor Honda.
- Sabindo O., Dkk, 2020, Pengaruh Variasi Ukuran Mesh Terhadap Nilai Kalor Briket Arang Tempurung Kelapa.

- Santosa M., 2018, Pengaruh perbedaan komposisi mangan pada komponen *Jaw Plate* terhadap kekerasan dan struktur mikro.
- Selcuk, B., Ipek, R. dan Karamis M.B. 2002. *A Study on Friction and Behaviour of Carburized, Carbonitrided and Borided AISI 1020 and 5115 Steel.*
- Silva, V.F., Canale, L.F., Spinel, D., Filho, W.W.B., Crnkovic, O.R., 1999, *Influence of retained austenite on short fatigue crack growth and wear resistance of case carburized steel, Journal of materials engineering and performance* 8:543-548.
- Suprihanto A, Dkk., Pengaruh Penambahan Unsur Cr Dan Cu Terhadap Kekuatan Tarik Besi Cor Kelabu FC20.
- Wisnujati A., 2017, Analisis Perlakuan *Carburizing* Terhadap Sifat Fisik dan Mekanik Pada Bahan *Sprocket* Imitasi Sepeda Motor.

LAMPIRAN

Pengujian Komposisi Baja Mangan



The image shows two side-by-side photographs of a handheld spectrometer screen displaying chemical composition analysis results for 'SS ANJAS'. The screen shows a table with columns for ELEMENT, % ↑, +/-, and LIMIT. The data is as follows:

ELEMENT	% ↑	+/-	LIMIT
Cr	1.78	0.020	
Ni	0.07	0.008	
Cu	0.06	0.007	
Mo	0.05	0.003	
V	0.04	0.013	
Pb	0.02	0.003	
Y	0.00	0.000	
Zr	0.00	0.000	

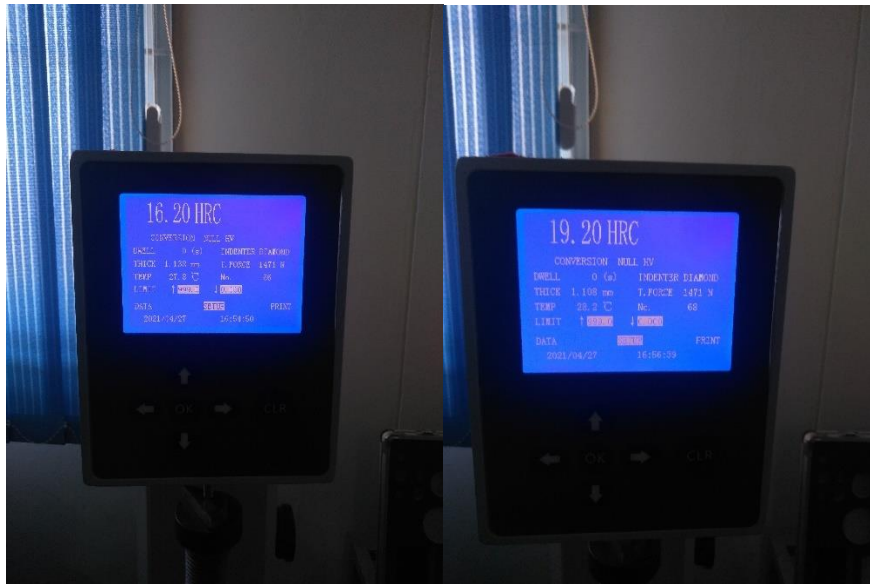
The second photograph shows a different set of results, including Fe and Mn:

ELEMENT	% ↑	+/-	LIMIT
Fe	84.95	0.141	
Mn	13.03	0.063	
Cr	1.78	0.020	
Ni	0.07	0.008	
Cu	0.06	0.007	
Mo	0.05	0.003	
V	0.04	0.013	
Pb	0.02	0.003	
Y	0.00	0.000	
Zr	0.00	0.000	

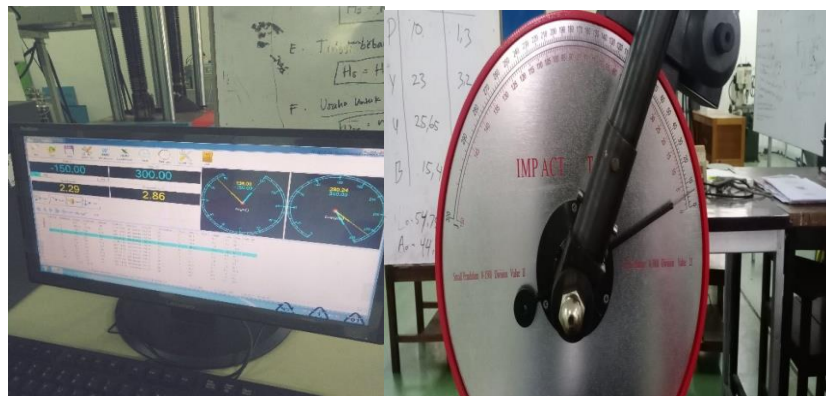
Proses Karburisasi



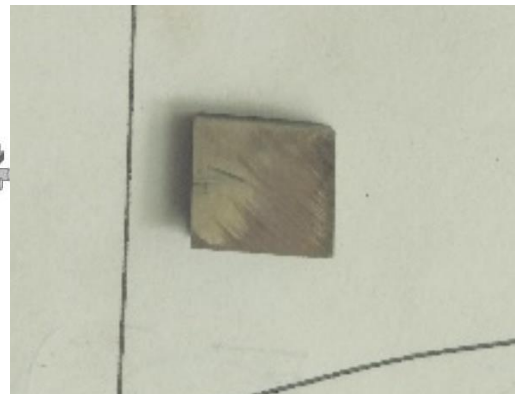
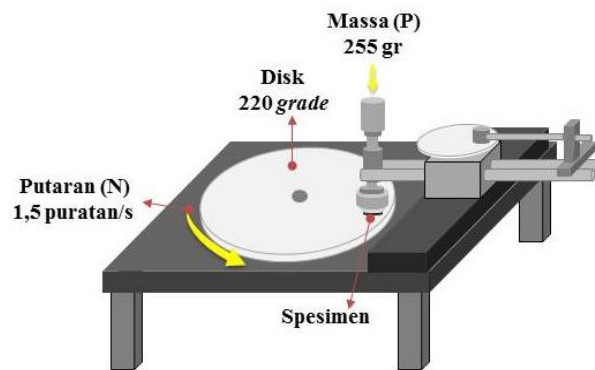
Pengujian Kekerasan



Pengujian Ketangguhan



Pengujian Keausan



Pengujian Metalografi

