Metallographic Etching Reagents, Vol. 2: For Copper Alloys, Nickel, and the Alpha Alloys of Nickel (Classic Reprint) (Paperback)



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Reviews

Very beneficial to all of category of folks. We have read through and i am sure that i will going to read once again once again in the future. Your daily life span will probably be change when you full reading this pdf. (Amelia Roob DDS)

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Forgotten Books, United States, 2018. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Metallographic Etching Reagents, Vol. 2: For Copper Alloys, Nickel, and the Alpha Alloys of Nickel The work herein described forms part of the general investiga tion of nietallographic etching reagents in progress at the Bureau of Standards, In a previous article 1 the authors summarized the results obtained with typical etching regents when copper was used as the metal which Was etched. The results reported below were obtained in the extension of this investigation to the important industrial alloys of copper, the brasses and bronzes, to nickel, and to the common lnickel-rich alloys. Since the pres ent work was a direct continuation of the former study, the general method of investigation was similar to that previously employed. In addition to the reagents of the previous investi gation certain others which were found to be particularly suited to some of the new materials were also used. The results obtained With copper suggested strongly the importance of oxida tion in the successful etching of metallographic specimens. it was shown that most oi. The metailographic etching reagents. Used for etching. Copper and its alloys are oxidizing in their nature, the efi iciency of the reagent depending largely upon this charf acteristic feature of the solution. Reagents Which have at best only a very slight e? ect upon copper can be made to etch fairly readily either by passing oxygen through the liquid while the specimen is immersed or by adding an oxidizing agent. The character of the etched surface produced - that is, whether of the plain or of the contrast type - depends almost entirely upon the results of the oxidation which aids and accompanies the solution of the metal....

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