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Author
Enago Academy

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3. Results and Discussion

3.1. Grain size after heat treatments

~~Optical Light~~ microscopy images were obtained for the ST, STA, and AR samples of each alloy. ~~Figure-~~ 1 (a) ~~is~~ shows a typical ~~image~~ of alloys 945 and 945X, ~~containing~~ which contain a γ matrix with grains and grain boundaries. ~~The nano-scale~~ In the subsequent sections, the ~~nanoscale~~ γ^3 phase in the γ matrix is examined for each alloy sample ~~in the subsequent sections~~. Initially, an uneven microstructure was obtained by ~~swabingswabbing~~ the samples with a cotton bud containing ~~k~~Kalling's reagent (concentrated and dilute solutions); some grains were etched ~~while~~ whereas others remained ~~sed~~ under-etched with no clear distinction between ~~the~~ grain boundaries. Grain sizes were evaluated ~~by~~ using the intercept method, ~~by~~ and considering 10 ~~light~~ optical micrographs of each sample.

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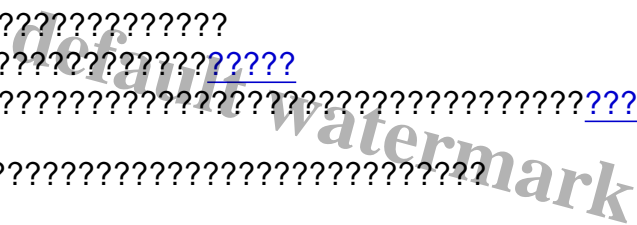
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