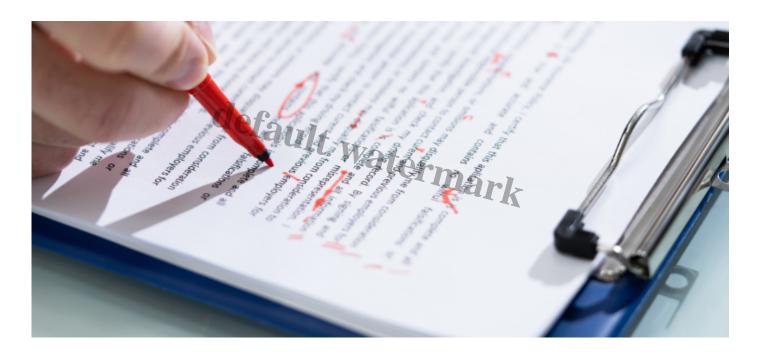
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Results and Discussion 3.1. Grain size after heat treatments

Optical Light microscopy images were obtained for the ST, STA, and AR samples of each alloy. Figure 1 (a) isshows a typical image of alloys 945 and 945X, containing which contain a y matrix with grains and grain boundaries. The nano scale in the subsequent sections, the nanoscale y^3 phase in the y 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 kKalling's reagent (concentrated and dilute solutions); some grains were etched whilewhereas others remainsed under-etched with no clear distinction between the grain boundaries. Grain sizes were evaluated by using the intercept method, byand considering 10 lightoptical micrographs of each sample.

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