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Experiments to compare the performance of neem seed oil quenching media and watermelon seed oil quenching media with conventional mineral quenching oil of Al and steel alloys

Salihi and Marimuthu

Abstract

The authors conduct experiments to compare the performance of neem seed oil quenching media and watermelon seed oil quenching media with conventional mineral quenching oil of Al and steel alloys. They have considered plain carbon steel with 0.37%C of 25mm diameter samples and austenitized them at 800,830,850,880, and 900⁰c for one hour, quenched them separately in above oils and tempered them at 250,270,300,330,350, and 400⁰c for one hour. There after they were cooled to room temperature.