Universitas Indonesia Library >> Artikel Jurnal

Pengaruh heat treatment terhadap struktur mikro dan kekerasan baja CrMoV dengan media Quench yang berbeda

Deskripsi Lengkap: https://lib.ui.ac.id/detail?id=20437075&lokasi=lokal

Abstrak

Heat treatments had been tested to enhance the hardness of CrMoV alloy steel. Heat treatments designed was heating at $1000 \text{Å}^{\circ}\text{C}$, holding time 1 hour then quenched at water, oil and air respectively. From any cooling media used, water cooling media (rapid cooling) to produce highest hardness number ~ 909 HV. It was seen from microstructure test, the effect of solute atom carbon in ferro atom in martensite structure as a result of rapid cooling while in an initial specimen which was not yet hardened, the hardness number ~ 278 HV. So, it resulted almost 2,3 times the initial

hardness number. In this paper the hardening mechanism for alloy steel is discussed.