

Carburizing: microstructures and properties

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Abstrak

Detailed discussions and over 250 graphs and charts describe the effects of microstructure on the properties of carburized steels. In-depth coverage clarifies the causes, interpretation, prevention, and consequences of various microstructural variations and defects in carburized parts. Also covered are the effects of post-hardening heat treatments, surface grinding, and shot peening. Contents: Internal Oxidation Decarburization Carbides Retained Austinite Grain size, Microsegregation, and Microcracking Core Properties and Case Depth Post Hardening Heat Treatments Post Carburizing Mechanical Treatments.