

Fatigue resistance of surface hardened steels.

University of Aston. Department of Metallurgy and Materials Engineering - Fatigue resistance of press hardened 22MnB5 steels



Description: -

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Fatigue Resistance of Steels

In the case of rapid heating, however, it must be noted that there is no longer a thermodynamic equilibrium state in the microstructure.

Surface contact fatigue failure of a case hardened pinion shaft

During gas carburizing, the component is exposed to a carbon-containing atmosphere. São Paulo: Edgar Blücher; 1995.

Influence of Case Hardening on Fatigue Resistance of Models of Hollow Shafts with Production Surface Defects

The challenge here is, therefore, to disclose the root cause s which led to the case hardened pinion failure during apparently normal in-service conditions of the studied gearbox.

Evaluating the resistance of surface

Since alloying elements generally reduce the critical cooling rate, deeper surface layers can be hardened with high-alloy steels. The nitrogen atoms diffuse into the surface of the steel and combine there with present alloying elements such as aluminium, chromium, molybdenum, vanadium and titanium to form hard and wear-resistant nitrides.

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