

CASEHARDENING

Meaning: Casehardening is a heat treatment process that hardens the surface of metals, particularly steel, to improve wear resistance while maintaining a softer interior.

1. Casehardening is a process used to increase the surface hardness of metals.
2. The casehardening of steel parts can significantly enhance their wear resistance.
3. After casehardening, the gears exhibited improved durability under heavy loads.
4. Manufacturers often employ casehardening to extend the lifespan of tools.
5. Understanding the effects of casehardening is crucial for engineers in the automotive industry.
6. The casehardening technique can involve various methods such as carburizing or nitriding.
7. Casehardening not only strengthens the outer layer but also maintains toughness in the core.
8. Proper control of temperature and time is essential during the casehardening process.
9. The benefits of casehardening are particularly noticeable in high-stress applications.
10. Research on new alloys has led to advancements in casehardening techniques.

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