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Heat treated parts are essential to the operation of automobiles, aircraft, spacecraft, computers and heavy equipment of every kind. Saws, axes, cutting tools, bearings, gears, axles, fasteners, camshafts and crankshafts all depend on heat treating. HTS proudly acknowledges the role of heat treaters in improving everyday living for all of us.

What is Heat Treating? - Heat Treating ... - ASM International

For heat treatment of steels, the first resource to become familiar with is the iron-cementite equilibrium phase diagram, which shows the equilibrium phases in iron-carbon alloys for a given temperature and composition. The iron-carbon equilibrium phase diagram (10) presented in Figure 1 shows carbon levels

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up to 7 wt.%, but steels are iron-carbon alloys only up to approximately 2 wt ...

Heat Treatment of Steels - an overview | ScienceDirect Topics

Heat-treating operations are not carried out using isothermal process, but using continuous cooling. As a result, the TTT curves representing the transformation of austenite are not strictly applicable to heat-treating operations. The diagrams provide an estimate, but do not provide accurate microstructure information.

Continuous Cooling Transformation Diagrams | Gear ...

Tempering requires you reheat the structure. Reheating to 400F will provide almost full hardness. Heating to 1000F will get you close to 30HRC. The cooling rate is very important. You will need to consult with a metallurgist or review the ASM Heat Treater's

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Guide for holding times and specific temperature to achieve 22HRC.

How To Weld 4140 Steel - WELDING ANSWERS

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