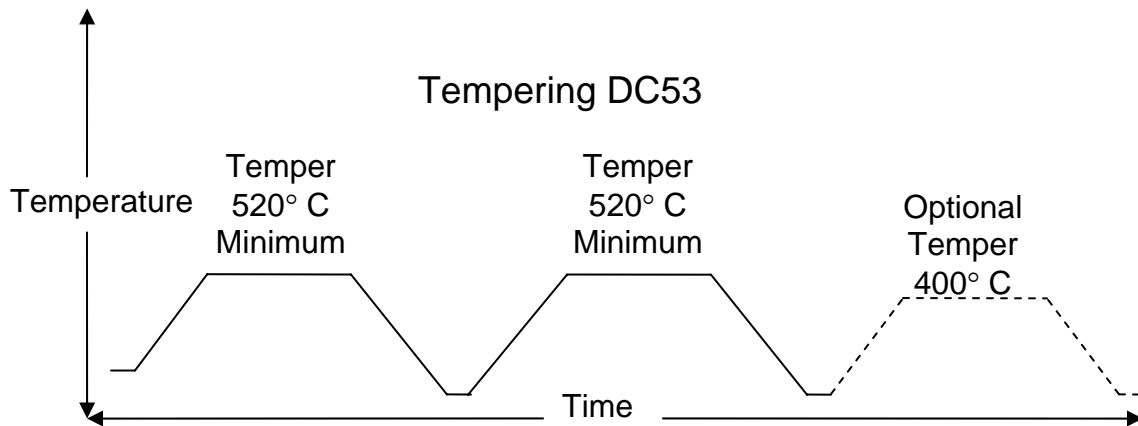


DC53 and Wire EDM

DC53 was initially developed with the Wire EDM process in mind. The high temperature double draw 520° C (970° F) or higher was part of the development criteria in determining alloy content, and heat treat requirements for DC53. This high temperature double temper relieves a considerable amount of stress in the steel which in turn minimizes movement in the part when Wire EDM cutting hardened DC53.



For additional stability in high precision applications or where a considerable amount of material is to be removed in the Wire EDM process, a third optional temper at 400° C (750° F) can be applied with no affect on reducing hardness.

Complete heat treat instruction are available upon request or can be found on our web site at www.imsteel.com

The melting operation in the manufacturing process of DC53 also provides great benefit to the Wire EDM process. Ladle refinement and vacuum de-gassing produces extremely clean steel free of inclusions and defects. The result is the elimination of irritating wire skips and breaks.

For rust prevention in the Wire EDM process, just follow normal procedures of using rust-preventive agents and handling practices as applied to other typical cold work and high speed grades of tool steels.