

TTT-CCT Phase Diagram Tool

TTT-CCT Phase Diagram Tool is a utility to generate TTT-CCT diagrams from DANTE material database. This utility tool can help to check the phase transformation model parameters for different materials. TTT-CCT utility is especially helpful with MecFit and Dilatometry Kinetics fitting utilities to expand users' materials database in DANTE.

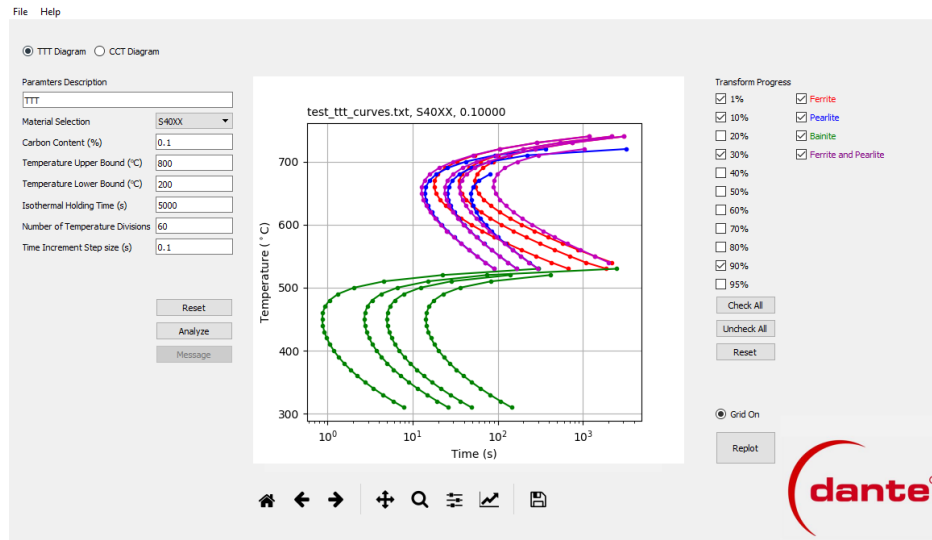
Features of TTT-CCT

Concepts

TTT also called Isothermal transformation diagrams are plots of temperature versus time. They are generated from percentage transformation vs time measurements, and are useful for understanding alloy steel transformations at elevated temperatures.

CCT (continuous cooling transformation) represents which types of phase change will occur during different cooling rates.

Example 1: TTT diagram of S40XX Material

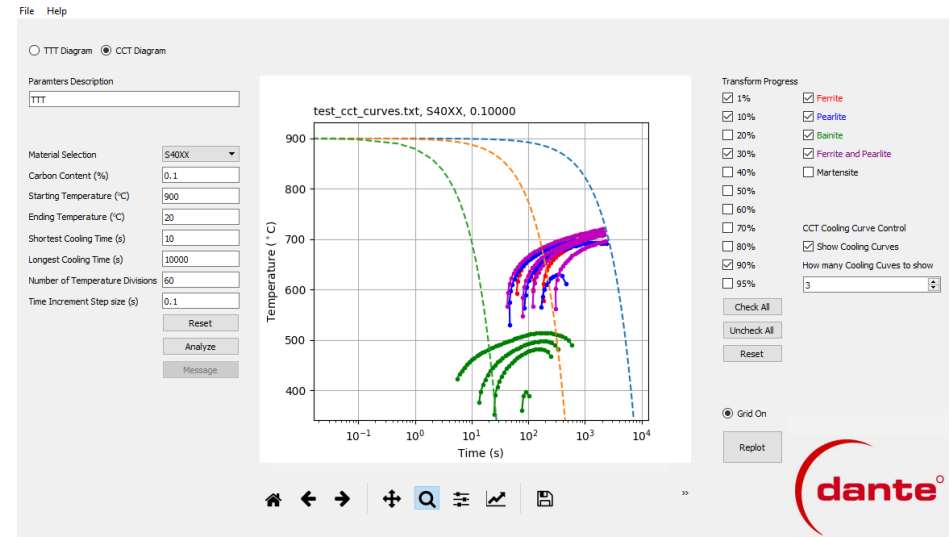


S40XX TTT diagram from DANTE TTT-CCT Utility



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Example 2: CCT diagram of S40XX Material



S40XX CCT diagram with cooling curves from DANTE TTT-CCT Utility