

**IME 301 Engineering Materials  
Laboratory Six: TTT Diagrams  
Data Sheet**

**Introduction**

Summarize the relevant background subject matter, in the TTT Diagram class-session which is relative to this experiment. (When Phase Transformations do occur)

Summarize the relevant background subject matter, discussed in the Thermal Treatment class session which is relative to this experiment. (When Phase Transformations do not occur)

Based on the information in the two boxes above, what is your well thought out justified prediction? Specifically focus on if a phase transformation will occur and if so what transformations will occur. Summarize the answer to the last Team Problem in the TTT Diagram Class Session.

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**Methodology**

What experimental data/information will be used to robustly test your hypothesis? How and why? Consider the last team problem from the TTT Diagram Class Session.

What was the experimental procedure?

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**Discussion**

Which results appear to confirm your hypothesis? How? Why?

Which results appear to refute your hypothesis? How? Why?

Based on the above what conclusions can you make? Do you have any recommendations?