

## Effect of Microstructure on Transition Temperature of Austempered Ductile Iron (ADI)

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**Abstract :** The ductile to brittle transition temperature is a very important criterion that is used for selection of materials in some applications, especially in low-temperature conditions. For that reason, in this study transition temperature of as-cast and austempered unalloyed ductile iron in the temperature interval from -60 to +100 degrees C have been investigated. The microstructures of samples were examined by light microscope. The impact energy values obtained from the experiments were found to depend on the austempering time and temperature.

**Keywords :** Austempered Ductile Iron (ADI), Charpy test, microstructure, transition temperature

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